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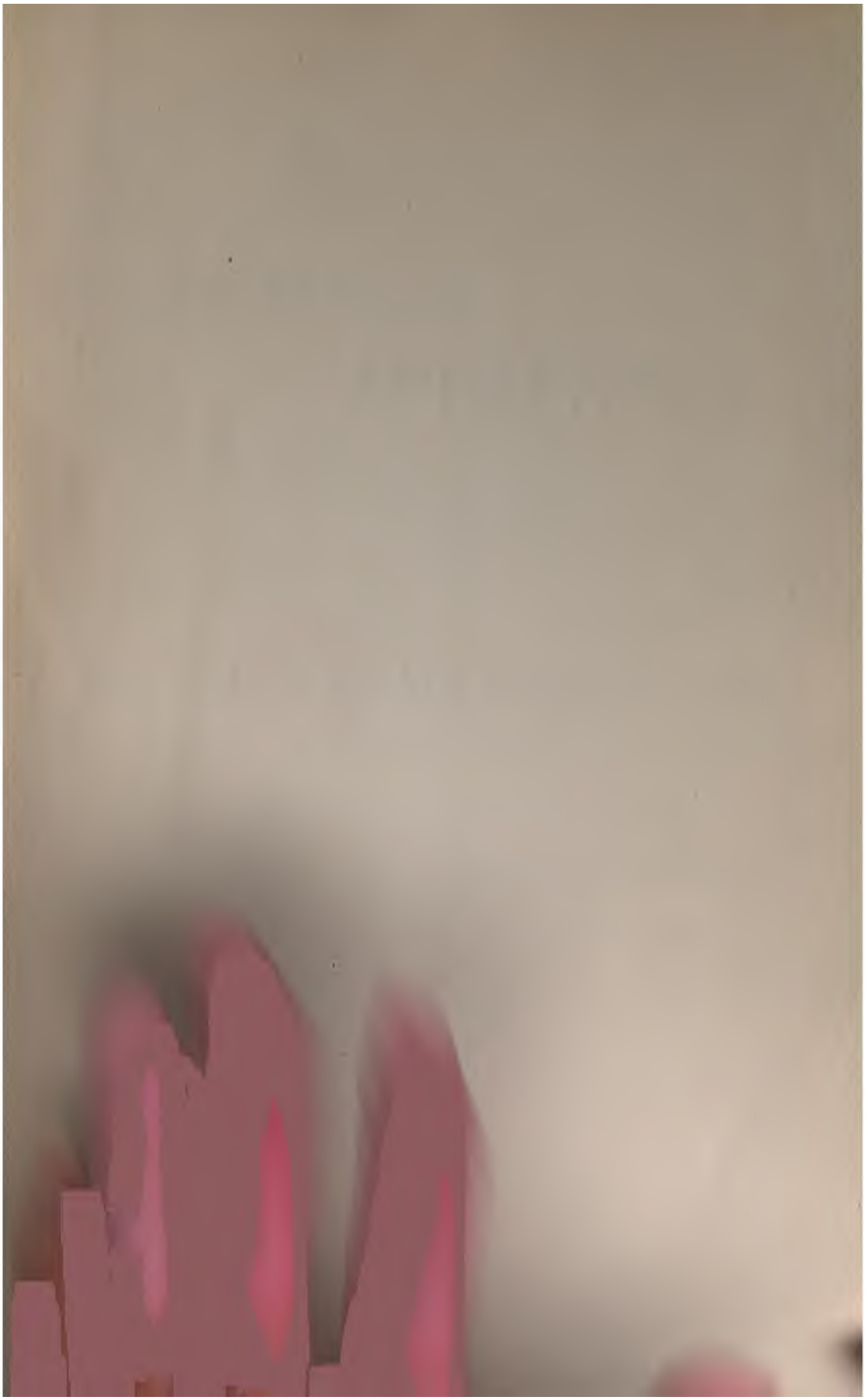

CATALOGUE F.

CHEMICAL APPARATUS.

BAUSCH & LOMB OPTICAL CO.

MAIN OFFICE AND MANUFACTORY,

515-543 NORTH ST. PAUL STREET,

ROCHESTER, N.Y.

NEW YORK BRANCH:
Townsend Building, Broadway and 25th Street.

CHICAGO BRANCH:
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PREFACE.

WITH the publication of this Catalogue we record a change which we believe to be for the convenience of the purchaser. Hereafter we will issue separate catalogues descriptive of the apparatus required in each of the different branches of science.

For the convenience of our patrons, we have recently added a very complete stock of

CHEMICAL APPARATUS.

In selecting these goods the manufactories of America and Europe have been thoroughly searched, and, following our established custom, only the best of everything in its respective classes has been selected. Our purchases have been sufficiently large and our connections such that we have been able to obtain these excellent products at the most favorable rates. It is our policy in every case to give to our customers the benefit of these advantages. As our stock is absolutely new, purchasers will be sure of securing all apparatus of the very latest construction and embodying every improvement in form and material.

While we have endeavored to make our stock as complete as possible, if our list should be found lacking in any particular, we shall be pleased to procure anything for the laboratory, knowing that our facilities will enable us to do so at the lowest rates. Estimates on such lists will be furnished whenever desired.

Having well established purchasing connections abroad we are also in position to supply the wants of educational institutions for apparatus to be imported duty free, and can give prompt service and satisfactory prices. We ask for an opportunity to figure on such orders.

Any of the electrotypes used in this or other of our Catalogues are placed at the disposal of Authors free of expense.

NOTICE.

In accordance with the change announced on the previous page, the following publications will be issued.

CATALOGUES.

A. Microscopes, Objectives and Accessories.
B. Microtomes and Apparatus for Microtomy,
C. Photo-Micrographic Apparatus,
D. Projection Lanterns, Accessories and Lantern Slides,
E. Bacteriological Apparatus,
F. Chemical Apparatus,
G. Chemicals and Reagents,
H. Photographic Lenses, Shutters and Accessories,

Any of these catalogues will be mailed post free on request to interested persons.

JOURNAL OF APPLIED MICROSCOPY.

(Issued monthly.)

$1 per year.

Devoted exclusively to the practical side of microscopical work, methods, apparatus, etc.

Most of the matter published consists of original papers written for the JOURNAL. Abstracts of contemporary literature and titles of papers on subjects within the scope of the JOURNAL, appearing in foreign periodicals are also given.

The list of contributors includes representatives of the leading educational institutions in the country thus insuring authoritative papers in all lines of work.

TERMS.

When writing or ordering goods, always give catalogue number and size of each article, and state from which catalogue they are taken. Careful attention to this detail will insure correct filling of orders and obviate delay. Give full address and explicit shipping directions in all cases.

Parties unknown to us will please send cash with order, or, if desiring to open credit account, will please give information and references that will enable us to pass upon the matter.

Checks drawn on banks other than New York, Boston or Philadelphia are subject to collection charges of fifteen cents for amounts less than one hundred dollars, or ⅛ of 1 per cent. for amounts over one hundred dollars. This sum should in all cases be added to the remittance.

When cash accompanies order and goods are to be sent by mail, add amount of postage to remittance, otherwise goods will be sent by express, and purchaser will pay the charges.

Goods sent by mail are at purchaser's risk.

Goods will be sent by express C. O. D. only when amounting to more than five dollars, expense of return charges to be borne by purchaser. One-fourth of the total amount should accompany the order.

Glassware is sent only at purchaser's risk unless insured, and our liability ceases when the goods are delivered on board the cars here and receipt for them in good order has been taken.

Consignments can be insured against damages (breakage, etc.) at the rate of 3 per cent. on the net amount of the invoice.

When goods are to be insured it should be plainly so stated in the order.

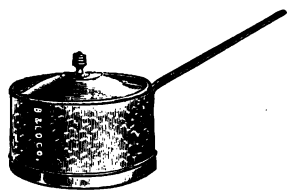
All packing is charged for at the actual cost to us.

All shipments will be carefully packed.

We employ only experienced packers and use every precaution to prevent breakage, and to reduce the cost of packing to the lowest limit.

Agateware. Under this heading we introduce two grades of enameled ware: *Flint Enameled and Agate Nickel Steel.* The former is made of sheet steel, pressed into shape and *double coated* with a vitreous enamel which effectually resists the action of acids, making it especially valuable for chemical laboratory purposes. The agate nickel steel is strong and durable. It is *double coated* with hard enamel, will not rust and break like ordinary enamels and is very satisfactory for all purposes except where acids are employed. We have designated after each article, the material of which it is made.

No. 8000.



No. 8002.

No 8004.

No. 8000. **Boilers,** nickel steel with retinned cover and patent bottom which prevents burning or scorching of contents and affords protection to that part of the vessel which receives the most wear.

	A.	B.	C.	D.
Capacity, cc.,	1000	2000	3000	5000
Height, mm.,	95	100	110	125
Diameter, mm.,	145	170	200	225
Price, each,	$ .75	.90	1.05	1.25

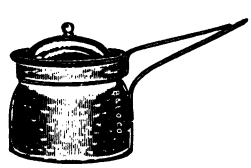
No. 8002. **Boilers,** nickel steel, with retinned cover and patent bottom which prevents scorching of contents and affords protection to that part of the vessel which receives the most wear.

	A.	B.	C.	D.
Capacity, cc.,	1000	2000	3000	5000
Height, mm.,	95	100	110	125
Diameter, mm.,	145	170	200	225
Price, each,	$ .75	.90	1.05	1.25

No. 8004. **Boilers,** nickel steel, deep, with retinned cover.

	A.	B.	C.	D.
Capacity, cc.,	1000	2000	4000	6000
Height, mm.,	95	115	150	160
Diameter, mm.,	125	140	175	215
Price, each,	$ .50	.60	.85	1.10

No. 8006.



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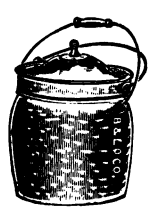


No. 8010.

No. 8012.

No. 8006. **Boilers,** double, nickel steel, with retinned cover.

	A.	B.
Capacity of inside boiler, cc.,	2000	4000
Price, each,	$1.50	$2.00

No. 8008. **Boilers,** double, nickel steel, patent seamless, with retinned cover.

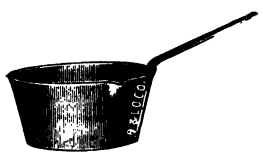
	A.	B.
Capacity of inside boiler, cc.,	2000	4000
Price, each,	$1.50	2.00

No. 8010. **Boilers,** double, nickel steel, seamless, extra large, with retinned cover, fitting both vessels.

	A.	B.	C.
Capacity, inside boiler, cc.,	6000	9000	14000
Height, mm.,	250	265	265
Diameter, mm.,	200	230	265
Price, each,	$2.00	2.50	3.50

No. 8012. **Buckets,** nickel steel, flat bottom, seamless, straight.

	A.	B.
Capacity, cc.,	8000	12000
Height, mm.,	230	290
Diameter, mm.,	165	215
Price, each,	$1.00	1.50



No. 8014 and 8016.

No. 8018.

No. 8020.

No. 8014. **Casseroles,** flint enameled, acid proof, seamless, strong lipped, without cover.

	A.	B.	C.	D.
Capacity, cc.,	500	750	1000	2000
Height, mm.,	55	55	65	85
Diameter, mm.,	110	125	150	175
Price, each,	$ .30	.40	.50	.60

No. 8016. **Casseroles,** nickel steel, seamless, strong lipped, without cover.

	A.	B.	C.	D.
Capacity, cc.,	500	750	1000	2000
Height, mm.,	55	55	65	85
Diameter, mm.,	110	125	150	175
Price, each,	$ .20	.25	.35	.45

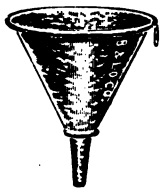
No. 8018. **Cups,** miners', nickel steel.

	A.	B.
Capacity, cc.,	1000	1500
Height, mm.,	115	130
Diameter, mm.,	130	150
Price, each,	$ .50	.65

No. 8020. **Dishes,** Evaporating, flint enameled, acid proof, seamless.

	A.	B.	C.	D.	E.	F.
Capacity, cc.,	500	1000	2000	4000	8000	12000
Diameter, mm.,	125	200	225	300	400	450
Price, each,	$ .75	1.00	1.50	2.00	3.00	4.00

No. 8022.



No. 8024.

Nos. 8026 and 8028.

No. 8022. **Funnels,** flint enameled, acid proof, seamless.

	A.	B.	C.	D.	E.
Capacity, cc.,	250	500	1000	2000	4000
Price, each,	$ .80	.95	1.10	1.25	1.50

No. 8024. **Funnels,** nickel steel.

	A.	B.	C.	D.	E.
Capacity, cc.,	250	500	1000	2000	4000
Price, each,	$ .40	.45	.55	.75	1.00

No. 8026. **Ladle,** flint enameled, acid proof, snipe lipped.

Diameter, mm.,	110
Depth, mm.,	40
Price, each,	$1.00

No. 8028. **Ladle,** nickel steel, snipe lipped.

Diameter, mm.,	110
Depth, mm.,	40
Price, each,	$ .50

No. 8030.

Nos. 8032 and 8034.

No. 8036.

No. 8038.

No. 8030. **Measures,** nickel steel, with handle.

	A.	B.	C.	D.	E.
Capacity, cc.,	250	500	1000	2000	4000
Price, each,	$ .40	.55	.75	.95	1.25

No. 8032. **Percolator,** flint enameled, acid proof.

Capacity, cc.,	500
Diameter, mm.,	105
Price, each,	$1.25

No. 8034. **Percolator,** nickel steel.

Capacity, cc.,	500
Diameter, mm.,	105
Price, each,	$ .75

No. 8036. **Pitcher,** flint enameled, acid proof, seamless, with funnel lip.

Capacity, cc.,	2000
Price, each,	$2.75

No. 8038. **Pitchers,** nickel steel, seamless.

	A.	B.	C.	D.
Capacity, cc.,	1500	2000	3000	4000
Price, each,	$ .80	1.00	1.20	1.40

Nos. 8040 and 8042.

No. 8044.

No. 8046.

No. 8048.

No. 8040. **Scoop,** flint enameled, acid proof.

Length, mm.,	135
Width, mm.,	75
Price, each,	$ 30

No. 8042. **Scoop,** nickel steel.

Length, mm.,	135
Width, mm.,	75
Price, each,	$ .15

No. 8044. **Trays,** deep, flint enameled, acid proof, seamless, with lip.

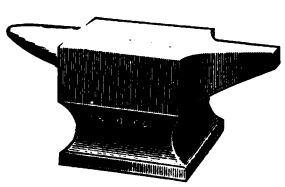
	A.	B.	C.	D.	E.
Length, mm.,	175	225	250	300	350
Width, mm.,	125	175	200	250	275
Price, each,	$1.50	2.00	2.50	3.50	5.00

No. 8046. **Trays,** nickel steel.

	A.	B.
Length, mm.,	230	260
Width, mm.,	155	200
Depth, mm.,	45	50
Price, each,	$ .50	.60

No, 8048. **Water-Baths,** enameled iron, with copper rings.

	A.	B.	C.	D.	E.	F.
Diameter, mm.,	135	165	200	225	250	310
Price, each,	$1.60	2.50	3.00	3.50	6.00	7.50



No. 8060.

No. 8062.

No. 8064.

No. 8066.

No. 8060. **Anvil,** steel, with polished face. 115 mm., weight 500 grams. Each $1.00.

No. 8062. **Anvils,** steel, with point and mirror polished, square face.

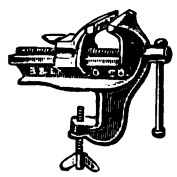
	A.	B.	C.
Size of face, mm.,	38	45	50
Price, each,	$ .60	.75	$1.00

No. 8064. **Anvils,** Trenton form, solid wrought iron, with steel face.

	A.	B.	C.	D.	E.
Weight, kilos,	0.5	1	2	5	10
Price, each,	$ .50	.75	1.00	2.50	4.00

No. 8066. **Anvils,** steel, with square mirror, polished face.

	A.	B.	C.	D.	E.
Size of face, mm.,	25	38	50	62	75
Price, each,	$ .60	.85	1.20	1.60	2.00



No. 8068.

No. 8070.

No. 8072.

No. 8068. **Anvils and Vise,** combined, for attaching to bench, japanned.

	A.	B.	C.
Width of jaws, mm.,	38	45	50
Price, each,	$ .50	.60	.75

No. 8070. **Anvils and Vise,** combined, of best car wheel iron, with face chilled hard and smooth.

	A.	B.	C.	D.
Weight, kilos.	4	11	16	22
Width of jaws, mm.,	62	85	100	115
Area of face, mm.,	115x50	160x75	200x85	215x100
Price, each,	$3.50	4.50	5.50	6.50

No. 8072. **Anvils and Vise,** combined, attachable to bench. These are strictly first class vises, made for all who need the strongest, most practical and finest made tool of the kind in the market; quality of screw and lever is guaranteed; with steel jaws.

	A.	B.	C.
Weight, grams,	1250	1875	3750
Width of jaws, mm.,	50	62	75
Price, each,	$1.50	2.25	3.00

No. 8080. **Asbestos Apron,** fire and acid proof. Each, - - - - - - $3.00

No. 8082. **Asbestos Board,** in sheets one meter (40 inches) square, fire and acid proof.

	A.	B.	C.	D.	E.	F.	G.	H.
Thickness, mm.,	0.75	1.5	2.25	3	5	6	9	12
Approximate weight, kilos.	0.75	2	2.50	3.50	5	7	10.5	14
Price, per sheet,	$ .25	.50	.75	1.00	1.60	2.00	3.00	4.00

No. 8084. **Asbestos Cloth,** 90 cm. (36 inches wide), fire and acid proof.

	A. Fine.	B. Medium.	C. Heavy.
Weight, 90 cm., grams,	900	1260	1680
Price per 90 cm. (1 yard),	$2.25	2.60	3.00

No. 8086. **Asbestos Cement,** fire and acid proof, in 2.5 kilo. (5 lb.) cans. Per can, $ .50

No. 8088. **Asbestos Cord or Twine,** in 470 grams (one lb.) balls, for wrapping handles of apparatus which become heated, suspending crucibles, retorts, etc., in contact with fire, etc.

	A.	B.	C.
Diameter, mm.,	1	1.50	3
Price, per ball (470 grams),	$1.25	1.10	1.00

No. 8090. **Asbestos Mittens,** fire and acid proof. Per pair, - - - $3.00

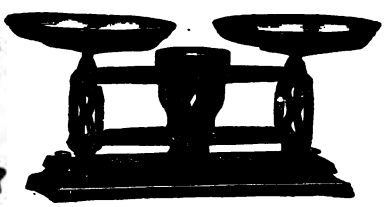
No. 8092. **Asbestos Paper,** sheets, 90 cm. (36 inches), square, fire and acid proof. Per 470 grams (1 lb.), - - - - - - - - .20

No. 8094. **Asbestos Paper,** extra thin, sheets 22.5 x 35 centimeters. Per 470 grams (1 lb.), - - - - - - - - - - .30

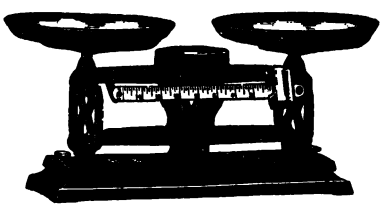
No. 8096. **Asbestos Plates,** bound with metal, for placing beneath heated vessels, etc.

	A.	B.	C.	D.	E.
Size mm.,	165 x 165	200 x 200	250 x 250	330 x 330	500 x 500
Price, each,	$ .30	.35	.40	.50	.65

No. 8100.



No. 8102.

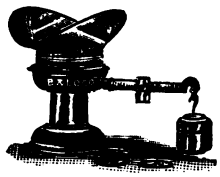


No. 8104.

No. 8100. **Balance, Torsion** Micro-chemical. This balance is of the extremely stable and durable Torsion construction, there being no bearing surfaces to wear out or rust. The metal parts, except the pans, are contained in an enameled case. Pans are of German silver and 100 mm. diameter, sensitive to $\frac{1}{10}$ of a grain. Any system of weights can be used. Each, - - - - - ***net,*** $12.00

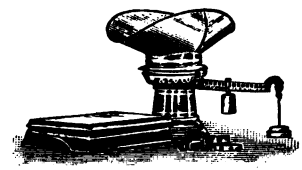
No. 8102. **Balance, Torsion** Laboratory, with two nickeled pans. This balance is of the Torsion construction, there being no knife edges to rust or wear out. All parts except pans, which are nickeled, are neatly japanned. This balance is especially adapted to general laboratory work where extreme sensitiveness is not required. Diameter of pans, 150 mm. Capacity, 5 kilos, sensitive to 0.5 gram. Any system of weights may be used. Each, - - - - ***net,*** $10.75

No. 8104. **Balance, Torsion** Laboratory, with two nickeled pans. This balance is similar to above in every respect except the attachment of side beam, which renders it more convenient where numerous drafts are to be weighed. Diameter of pans, 150 mm. Capacity 5 kilos, sensitive to 0.5 gram. Side beam is graduated in metric system. Each, ***net,*** $12.50



No. 8110.

No. 8112.



No. 8114.

No. 8110. **Balances, Howe,** with single notched slide poise beam. This balance can be had with beam graduated for either Avoirdupois or Metric weights, and is intended for use where quantities of over ten grams or one-half ounce are to be weighed. Capacity, ten grams or one-half ounce to twelve kilos or twenty-six pounds. Metric beam sent unless otherwise ordered.

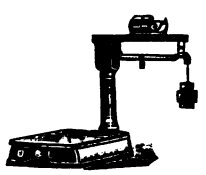
	A. Without scoop.	B. With tin scoop.	C. With brass scoop.
Price, each,	$8.50	9.50	10.50

No. 8112. **Balances, Howe,** two iron plates, with patent frame and weights complete. This balance can be used with any system of weights; metric supplied unless otherwise stated.

Capacity.	A. Without scoop, with weights.	B. With tin scoop and weights.	C. With brass scoop and weights.
10 grams to 1 kilo or ½ oz. to 2 lbs.	$5.00	5.75	6.50
10 grams to 3 kilos or ½ oz. to 6 lbs.	6 00	7.00	7.75
10 grams to 5 kilos or ½ oz. to 10 lbs.	7.00	8.50	9.50
10 grams to 7 kilos or ½ oz. to 16 lbs.	9.50	11.00	12.00

No. 8114. **Balances, Howe,** patent frame with platform-beam, can be had for either Avoirdupois or Metric weights. Capacity, ten grams or one-half ounce to one hundred and ten kilos, or two hundred and forty pounds. Metric beam will be sent unless otherwise ordered. Size of platform, 250x350 mm.

	A. With tin scoop.	B. With brass scoop.	C. With tin funnel scoop.	D. With brass funnel scoop.
Price, each,	$14.00	15.00	15.00	16.50



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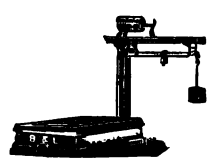


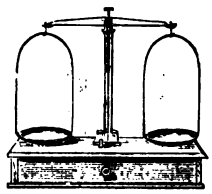
No. 8118.

No. 8116. **Balance, Howe,** with platform 250x350 mm. Capacity, thirty grams or one ounce to ninety kilos, or two hundred pounds. Beam furnished with Metric or Avoirdupois graduations; Metric sent unless otherwise ordered. Each, - - - - - - $16.00

No. 8118. **Balance, Howe,** with platform 325 x 475 mm. Capacity, sixty grams or two ounces to one hundred and thirty-six kilos, or three hundred pounds. Beam furnished with Metric or Avoirdupois graduations; Metric sent unless otherwise ordered. Each, - - 19.00

No. 8132.

No. 8134.



No. 8136.

No. 8130. **Balance, Hand,** length of beam, 150 mm., diameter of pans, 60 mm. in case. Each, - - - - - - - - ***net,*** $1.00

No. 8132. **Balance, Micro-Chemical.** This balance, although low in price, is of sufficient accuracy for weighing out the reagents and chemicals necessary for making up the solutions, etc., generally used in micro-biological work. The metal parts are nickeled and mounted on an oak base with drawer for weights. Diameter of pan, 75 mm., length of beam, 150 mm. Each, - - - - - ***net,*** 3.00

No. 8134. **Balance, Prescription,** with eccentric lift, mounted on mahogany base with drawer for weights, diameter of pans, 65 mm., sensitive to one-tenth grain. Each, - - - - - - - ***net,*** 6.00

No. 8136. **Balance, Chemical,** for weighing chemicals, etc. This balance is of polished brass except the pans, which are nickeled. Length of beam, 225 mm., diameter of pans, 75 mm. Mounted on polished wooden case. Beam is fitted with adjusting screws. Sensitive to one-thirtieth grain.

(a) without weights, - - - - - ***net,*** 9.00
(b) with weights, 20 gram to 1 centigram, - - ***net,*** 10.75

No. 8140.

No. 8142.

No. 8140. **Balance, Kohlbusch's Improved Laboratory,** in polished mahogany case with glass sides, leveling screws and spirit level, with door sliding upward. The pans are nickeled and are 75 mm. in diameter. Adjusting screws on ends of beam. This balance is an extremely reliable one and yet low in price. Sensitive to one one-hundredth grain.

(a) as above described, each, - - - ***net,*** 22.50
(b) with agate bearings, each, - - - ***net,*** 27.00

No. 8142. **Balance, Troemner's Agate Laboratory,** in polished mahogany case with counterpoised door sliding upward. The case has leveling screws and spirit level and the balance has indicator pointing downward. The beam is *plated with gold* and has adjusting screws. All other parts are nickel except the pans, which are solid silver and of 75 mm. diameter. *All* the *bearings* are *jeweled*. The case is large and roomy and is made of old mahogany. Each, ***net,*** 38.00

No. 8144.

No. 8146.

No. 8144. **Balances. Kohlbusch's Analytical.** This balance is mounted in a handsome polished case, with door sliding upward. Case has leveling screws and level. Arrest for beam and pans, with arrangement for riders and specific gravity. End of beam fitted with adjusting screw. *All bearings agate.* Diameter of pans, 75 mm. Capacity, 100 grams in each pan. Each, - - - - - - ***net,*** $40.00

No. 8146. **Balances, Sartorius.** New model. This balance is mounted on black plate glass and in fine case with door sliding upward. Although low in price, it meets all expectations as to sensitiveness. Triangular beam with scale. Beam, scales and hangers are fitted with arrest. Axes and pans of carneol; pans platinum plated.

(a) Without displacement of rider, - - - ***net,*** 40.00
(b) With displacement of rider, - - - ***net,*** 50.00

This balance can be imported free of duty under existing laws. Price quoted on application.

No. 8150.

No. 8158.

No. 8150. **Balances. Kohlbusch Improved** (short arm). This balance is mounted in neat case with glass sides and top, door sliding upward. Arrest for beam and pans of improved type. Rider has clean sweep across the beam, which is divided in 1-5 milligrams. Provided with apparatus for taking specific gravity. All bearings agate. Diameter of pans, 75 mm. Capacity, 200 grams in each pan. Each, - ***net,*** 50.00

No. 8158. **Balances. Troemner, Analytical.** In finely finished case, with polished glass sides and counterpoised door sliding upward ; improved arrest for pans ; beam 250 millimeters long, divided into 1-10 milligram. Pans, 75 mm. diameter. Capacity, 100 grams in each pan, sensitive to 1-10 milligram. With apparatus for specific gravity.

(a) As above described, each, - - - ***net,*** 72.00
(b) As above, but with agate knife edges. Each, - ***net,*** 80.00

No. 8162.

No. 8164.

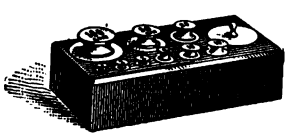
No. 8166.

No. 8162. **Balances. Troemner's Analytical Agate** (short arm). In polished mahogany case, with glass sides, with leveling screws and spirit level; beam of aluminum, both arms being graduated into 1-10 milligram. Bows and pans of nickel, bows being 100 mm. wide. *All bearings* are of *agate.* Capacity, 200 grams in each pan, sensitive to 1-10 milligram. Each, - - - - - - - ***net,*** $80.00

No. 8164. **Balances. Kohlbusch's Improved** (short arm). In handsome mahogany case, with sides and top to admit light freely; front and back doors sliding upward. Balance is mounted on plate glass. Rider has free motion across entire length of beam, which is graduated on both sides. Space between bows, 100 mm. Beam and pan arrest is of improved form, causing no jar when released. *All parts* of balance are heavily plated with *platinum,* making it non-corrosive throughout. Provided with bench for specific gravity, stand for weighing tubes, and set of heavily platinum-plated weights, 100 gram to 1 milligram, and 3 riders. Capacity, 200 grams in each pan, sensitive to 1-20 milligram. Each, - - - ***net,*** 100.00

No. 8166. **Balances. Troemner's** (short arm). Of finest workmanship throughout, in handsome mahogany case, with glass sides and top to admit light freely. Beam of pure aluminum with improved self-locking arrest for beam and pans, and arms of beam graduated on both sides. All brass work is heavily plated with gold. Agate planes and agate knives; no steel used in the construction. This balance has a capacity of 200 grams, and is sensitive to 1-20 milligram. Each, - - - - - - - - - ***net,*** 105.00

Nos. 8224-8232.



Nos. 8240-8256.

Balance Weights. Howe's Avoirdupois, for coarse weighing.

	Capacity.	A. Sealed iron.	B. Sealed zinc.	C. Sealed brass.
No. 8224	8 ozs. down,	$ .75	1.25	1.50
No. 8226	1 lb. down,	1.00	1.75	2.00
No. 8228	2 lbs. down,	1.25	2.50	3.50
No. 8230	4 lbs. down,	1.75	3.50	6.00
No. 8232	8 lbs. down,	2.75	5.50	11.00

Balance Weights, Kohlbusch's. Larger sizes of solid brass, heavily lacquered to prevent tarnishing, milligrams of nickel, silver and aluminum.

		A In box.	B In block.
No. 8240.	One ten-gram piece and down to 1 centigram, capacity, 20 grams, - - - - -	*net,* $ .80	*net,* $ .50
No. 8242.	One twenty-gram piece, and down to 1 centigram, capacity, 50 grams, - - - -	*net,* .90	*net,* .60
No. 8241.	One fifty-gram piece and down to 1 centigram, capacity, 100 grams, - - - - -	*net,* 1.40	*net,* 1.00
No. 8246.	One-hundred gram piece and down to 1 centigram, capacity, 200 grams, - - - -	*net,* 2.10	*net,* 1.50
No. 8248.	One two-hundred gram piece and down to 1 centigram, capacity, 500 grams, - - -	*net,* 3.00	*net,* 2.00
No. 8250.	One five-hundred gram piece and down to 1 centigram, capacity, 1000 grams, - - -	*net,* 4.50	*net,* 3.60
No. 8252.	One kilo piece and down to 1 centigram, capacity, 2000 grams, - - - - -	*net,* 6.00	*net,* 5.40
No. 8254.	One two-kilo piece and down to 1 centigram, capacity, 4000 grams, - - - -	*net,* 9.50	*net,* 8.00
No. 8256.	One five kilo piece and down to 1 centigram, capacity, 10,000 grams, - - - -	*net,* 17.00	*net,* 14.00
No. 8258.	Sets of milligram weights, separate from full sets, 500 to 10 milligrams, per set, - - -		*net,* .25
No. 8260.	Single brass weights for sets Nos. 8240 to 8256 :		

	A	B	C	D	E	F	G	H	J	K
Capacity grams,	1	2	5	10	20	50	100	200	500	1000
Price each, *net,* $	.10	.10	.12	.15	.25	.30	.45	.60	.90	1.60

Nos. 8262-8270.

Nos. 8272-8288.

Balance Weights. Kohlbusch's of iron, for coarse weighing.

No. 8262.	One kilo piece down to ten gram, - - - -	*net,* $1.10
No. 8264.	Two kilo piece down to ten gram, - - - -	*net,* 1.75
No. 8266.	Five kilo piece down to ten gram, - - - -	*net,* 3.00
No. 8268.	Ten kilo piece down to ten gram, - - - -	*net,* 4.50
No. 8270.	Twenty kilo piece down to ten gram, - - -	*net,* 6.00

Balance Weights. Kohlbusch's fine gram and grain, in mahogany boxes, velvet lined, brass weights heavily lacquered, milligrams of aluminum. All weights accurately adjusted.

No. 8272.	One twenty gram piece and down to one centigram. Capacity, 50 grams, - - - - - - - - -	*net,* 3.00
No. 8274.	One fifty gram piece and down to one centigram. Capacity, 100 grams, - - - - - - - - -	*net,* 4.50

No. 8276. One hundred gram piece and down to one centigram. Capacity, 200 grams, - - - - - - - *net,* $ 5.40

No. 8278. One two hundred gram piece and down to one centigram. Capacity, 500 grams, - - - - - - - - *net,* 6.75

No. 8280. One five hundred gram piece and down to one centigram. Capacity, 1000 grams, - - - - - - - *net,* 9.00

No. 8282. One kilo piece and down to one centigram. Capacity, 2000 grams, - - - - - - - - - *net,* 10.80

No. 8284. One two kilo piece and down to one centigram. Capacity, 4000 grams, - - - - - - - - - *net,* 14.00

No. 8286. One five kilo piece and down to one centigram. Capacity, 10000 grams, - - - - - - - - - *net,* 20.00

No. 8288. One ten kilo piece and down to one centigram. Capacity, 20000 grams, - - - - - - - - - *net,* 28.00

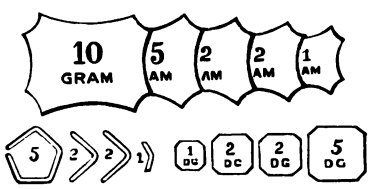
No. 8290. **Balance Weights. Kohlbusch's,** single weights of aluminum.

	A.	B.	C.	D.	E.	F.	G.	H.	J.
Capacity, milligrams,	1	2	5	10	20	50	100	200	500
Price, each, *net,* $	.15	.15	.15	.15	.15	.15	.20	.25	.30

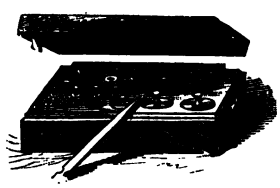
No. 8292. **Balance Weights. Kohlbusch's** single weights of brass.

	A.	B.	C.	D.	E.	F.	G.	H.	J.	K.
Capacity, grams,	1	2	5	10	20	50	100	200	500	1000
Price, each, *net,* $	.20	.20	.25	.30	.40	.45	.65	.90	1.35	2.25

No. 8300.



Nos. 8304-8306.



Nos. 8310-8314.

No. 8300. **Balance Weights. Troemner's Grain.** Aluminum, square, concave so they may be readily picked up. 10 grain down to ½ grain, per set, - - - - - - - - - *net,* $ .35

No. 8302. **Balance Weights. Troemner's Avoirdupois,** nickel silver, ¼ ounce down to $\frac{1}{128}$ ounce per set, - - - - - *net,* .65

No. 8304. **Balance Weights. Troemner's Metric.**
10 gram down to 1 centigram, - - - - *net,* .50

No. 8306. 1 gram down to 1 centigram, - - - - *net,* .25

No. 8308. 100 grams down to 1 centigram, mounted in cherry block, *net,* 1.50

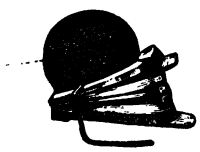
No. 8310. **Balance Weights. Troemner's Analytical of greatest precision,** guaranteed. Mounted in handsome case.
One platinum gram and down to $\frac{1}{10}$ milligram, - *net,* 7.50

No. 8312. One ten gram piece and down to one milligram, - *net,* 8.25

No. 8314. Two twenty gram pieces and down to one milligram. 3 riders, - - - - - - - - *net,* 10.50

No. 8320. **Beakers.** Under this heading we introduce only aluminum beakers. For those made of glass ware, etc., see respective headings, i. e., glass beakers under "glassware."
Aluminum of superior finish.

	A.	B.	C.	D.	E.	F.	G.	H.
Capacity, cc.	15	30	60	120	250	500	750	1000
Price, each,	.15	.20	.25	.30	.40	.60	.90	1.25



No. 8330.

No. 8332.

No. 8330. **Blowers,** for use with foot power. The best constructed for laboratory and workshop purposes. A rubber disc forms the air reservoir; by increasing the number of discs a greater air pressure is obtained.

	A.	B.	C.
Diameter of air reservoir, mm.,	180	225	275
Price each,	$4.80	6.00	8.40

No. 8332. **Blowers, Mounted** on legs, for use with foot power, same as above, but with blower reversed, so as to bring the air reservoir below instead of above.

	A.	B.	C.
Diameter of air reservoir, mm.,	180	225	275
Price each,	$6.00	7.20	9.60

No. 8334. **Blowers. Extra** rubber disc for above blowers.

	A.	B.	C.
Price, each,	$ .60	.90	1.20

No. 8336. **Blowers. Extra** nets for any of above blowers. Each, - - $ .40

No. 8338.

No. 8340.

No. 8342.

No. 8344.

No. 8338. **Blowpipes, Plain** form, of brass.

	A.	B.	C.	D.	E.
Length, mm.,	150	200	250	300	350
Price, each,	$ .10	.12	.15	.20	.25

No. 8340. **Blowpipes, Plain,** with ball, of brass.

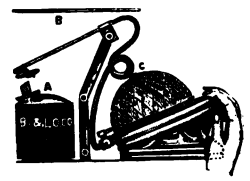
	A.	B.	C.	D.	E.
Length, mm.,	150	200	250	300	350
Price, each,	$ .16	.20	.25	.30	.35

No. 8342. **Blowpipes, Plattners,** nickel plated, with rubber mouth piece, and platinum point. Each, - - - - - - - - $2.25

No. 8344. **Blowpipes, Fletcher's** hot blast, mouth, straight shaft, with hard rubber mouth piece. Very effective. Each, . - - - 1.00

No. 8346.

No. 8348.



No. 8350.

No. 8346. **Blowpipes, Fletcher's.** Hot blast, chemical, with hard rubber mouthpiece. Each, - - - - - - - - - $1.50

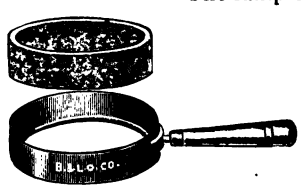
No. 8348. **Blowpipes, Brazing,** with two stop-cocks, arranged as shown in illustration. Each, - - - - - - - - 2.00

No. 8350. **Blowpipes, Fletcher's.** Special, chemical, with folding stand, adjustable at any height or angle, complete as illustrated. Each, - 5.60

This blowpipe can be used with the mouth or the small hand blower attached and the blowing done by hand.

The blowpipe is supplied with one jet with and one without the coil, to enable the operator to obtain a large variety of flame.

The lamp or a weight should be placed on the stand when in use.



No. 8360 and 8362.

No. 8364.

No. 8366.

No. 8368.

No. 8360. **Blowpipe Apparatus. Asbestos Soldering Block,** of finest quality, preferred by many to the carbon block. Each, - - - $ .75

No. 8362. **Blowpipe Apparatus. Asbestos Soldering Block Holder,** with flange to prevent block from falling through. Each, - - - - .30

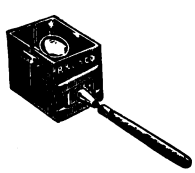
No. 8364. **Blowpipe Apparatus. Carbon Soldering Block.** Cleanly and perfect non-conductors. Circular, 100 mm. diameter, depressed on each face. Each, - - - - - - - - - .30

No. 8366. **Blowpipe Apparatus. Carbon Soldering Block. Holder** only. Each, .35

No. 8368. **Blowpipe Apparatus. Carbon Cylinders.** For blowpipe analysis; more cleanly than charcoal. The cupped ends are admirably suited for soldering small articles. Size, mm., 28 x 75. Each, - .25

No. 8370.

No. 8374.



No. 8376.

No. 8378.

No. 8370. **Blowpipe Apparatus. Charcoal Borer,** club shaped, large size. Each, .75

No. 8372. **Blowpipe Apparatus. Charcoal Borer,** four cornered, small size. Each, - - - - - - - - - $ .45

No. 8374. **Blowpipe Apparatus. Charcoal Borer,** with spatula. Each, - - $ .50

No. 8376. **Blowpipe Apparatus. Charcoal Borer,** with platinum wire and shield. Each, - - - - - - - - - - 2.75

No. 8378. **Blowpipe Apparatus. Magnets,** horse-shoe shape, of finest quality, with armature.

	A.	B.	C.	D.	E.	F.	G.
Length, mm.,	75	100	125	150	200	250	300
Price, each,	$ .20	.40	.60	.80	1.75	3.00	4.00

No. 8380. **Blowpipe Lamps,** self-acting.

No.	1	2	3	4
Price, each,	$1.75	2.00	2.35	2.65

No. 8382. **Blowpipe Hand Lamps.** Each, - - - - - - 1.50

No. 8390.

No. 8392.

No. 8394.

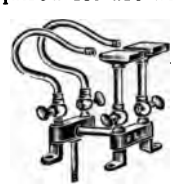
No. 8390. **Blast Burner, Bunsen's** adjustable, with separate stop-cocks for controlling flow of gas and air; an excellent lamp. Each, - - $4.00

No. 8392. **Blast Burner, Wiesnegg's,** or French form, with two stop-cocks; ball joints for adjusting angle. Each, - - - - - 4.50

No. 8394. **Blast Burner, Compound,** for glass blowing, etc. Each, - - 12.00

This is a double concentric blowpipe, the gas and air being changed automatically from the larger to the smaller blowpipe by a slight movement of the lever at the back, the same movement also adjusting both gas and air to each other for each blowpipe. The combination of two blowpipes in this manner gives a great range of power from a delicate pointed jet to a brush flame. This burner is of sufficient power and range for the glass work and similar operations requiring high temperatures in the Bacteriological and Biological Laboratory. Foot blower—No. 8330 or No. 8332, or some other powerful blower—is required for use with it.

No. 8396.



No. 8396.

No. 8400.

No. 8396. **Blast Burners, Glass Blowers,** for working large sizes of glass tubing in the laboratory.

(a) Single set, on round base, each, - - - - $5.00

(b) Double set, on round base, each, - - - - 7.00

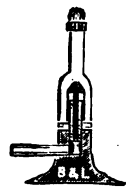
(c) Triple set, on round base, each, - - - - 10.00

In place of the round base we also furnish them on legs to be screwed to table, the supply tubes for gas and blast arranged either in horizontal position or so that the tubes can project through the table, in which case the rubber tubing connections are not in the way of the operator. See above illustrations.

No. 8398. **Blast Burners, Extra Tips,** for burners No. 8396. Each, - - $ .40

No. 8400. **Blast Burner, Boyce's,** to attach to apparatus stand, a very convenient burner, each, - - - - - - - - 1.50

No. 8401.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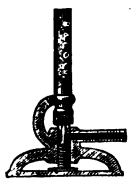

No. 8404.

No. 8406.

No. 8408.

No 8420.

No. 8401. **Burner, Alton's** improved Bunsen, powerful like a blast, greatest heating intensity, strongest melting capacity; can be used with natural. artificial, gasoline, coal, water, or any gas. Each, - - - 1.50

No. 8402. **Burner, Boyce's** Acme, recommended by laboratory workers. Each, 1.50

No. 8404. **Burner, Boyce's** Adjustable. Each, - - - - - 1.00

No. 8406. **Burner, Bunsen's,** single tube, with flame check; height, 150 mm. Each, - - - - - - - - - - .40

No. 8408. **Burner, Bunsen's,** low form, with flame check. Each, - - .50

No. 8410. **Burner, Bunsen's,** low form, fitted with mica chimney. Each, - .75

No. 8412. **Burner, Bunsen's,** with two tubes; height, 150 mm. Each, - .80

No. 8414. **Burner, Bunsen's,** with three tubes; height, 150 mm. Each, - - 1.00

No. 8416. **Burner, Bunsen's,** with four tubes; height, 150 mm. Each, - 1.25

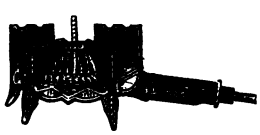
No. 8418. **Burner, Bunsen's,** Micro; height, 100 mm.; without mica chimney. Each, - - - - - - - - 1.00

No. 8420. **Burner, Bunsen's,** Micro; height, 100 mm.; with mica chimney. Each, 1.25

In burners 8418 and 8420, the gas is projected into the air chamber through a very small opening, hence a very fine flame can be obtained which may be cut down to smallest point without lighting back.

No. 8422.

No. 8424.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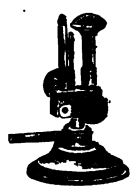

No. 8427.

No. 8422. **Burner, Bunsen's** adjustable, for varying qualities of gas. A desirable burner for gasoline gas. Each, - - - - - $1.25

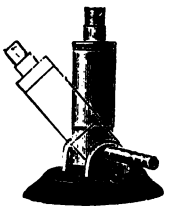
No. 8424. **Burner, Bunsen's** safety. Each, - - - - - 1.50

With gauze top, which prevents the flame from lighting back. The gauze slides in and in case of an accident can be replaced in a few seconds. The burner is mounted on a brass stand and is 120 mm. high.

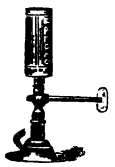
No. 8426. **Burner, Concentric Radial.** Each, - - - - - 1.80

This burner has no loose parts, and is practically undamageable and indestructible with the roughest use, as it is made of annealed cast iron. It works equally well with either coal, water or air gas. The flames are practically solid when in use, with no tendency to run to a point in the centre. Diameter of burner ring, 90 mm.

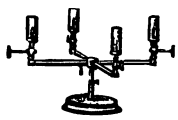
No. 8427. **Burner, Patent Triplex,** a soldering, illuminating and Bunsen burner combined. Valuable for laboratory use. Each, - - - 2.75


No. 8428.

No. 8430.


No. 8432.

No. 8434.


No. 8440.

No. 8428. **Burner, Friedburg's Safety,** with joint, may be inclined at any angle. Each, - - - - - - - - - $1.00

No. 8430. **Burner, Friedburg's Safety,** low form (65 mm. high), without joint. Each, - - - - - - - - - - 1.00

This is a modification of the Bunsen burner, in which the air enters the burner at the top and is heated by the flame before being mixed with the gas, thus giving a hotter flame with less gas. It is warranted not to light back.

No. 8432. **Burner, Gas,** height 165 mm. with cock to regulate amount of gas admitted to burner, with mica chimney. Each, - - - 2.50

No. 8434. **Burner, Gas,** two flames in line. Each, - - - - 2.00

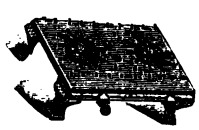
No. 8436. **Burner, Gas,** two flames in line, with stopcocks. Each, - - 5.00

No. 8438. **Burner, Gas,** four flames, arranged in square. Each, - - - 4.00

No. 8440. **Burner, Gas,** four flames, arranged in square, with stopcocks. Each, 8.00

These burners have the advantage of distributing the heat over a greater area than those of more compact construction, without the use of any more gas.

No. 8442.


No. 8444.

No. 8446.

No. 8454.

No. 8442. **Burner, Instantaneous** Water Heater and Burner, complete. Each, $6.00

This is an extremely useful piece of laboratory furniture, as it will, when connected to ordinary cold water supply, deliver hot water within three seconds after the gas is lighted, and any temperature may be maintained, warm, hot, or boiling. It is of simple construction, not liable to get out of order or wear out.

No. 8444. **Burner, Hot Plate,** with two radial burners, 95 mm. in diameter. Each, - - - - - - - - - - 6.00

The points and supports over the top of the plate are of the same height, giving a level surface for the support of the vessel to be heated. Size of top of plate 290 x 475 mm. Each burner has separate valve for controlling flame.

No. 8446. **Burner, Koch's Safety,** small, with support. Each, - - 4.50

No. 8448. **Burner, Koch's Safety,** medium, with support. Each, - - 5.00

No. 8450. **Burner, Koch's Safety,** large, on adjustable support. Each, - 8.00

No. 8452. **Burner, Koch's Safety,** large, with two burners on adjustable support. Each, - - - - - - - - - $12.00

The Koch Burner should be used in all cases where apparatus is to be left without attention. The burner is so arranged that in case the flame is accidentally extinguished the gas is automatically closed off. As gas pressure is always liable to vary, and draughts, etc., are liable to occur anywhere, which might extinguish a low flame, all carefully directed laboratories will take advantage of this safeguard.

No. 8454. **Burner, Low Temperature,** with blast pipe. Each, - - - 2.40

This burner is so arranged as to give any temperature, from a gentle current of warm air to a red heat, and is so perfectly under control that a flask may be placed on the tripod and heated to any required temperature without the slightest danger of fracture.

No. 8456.

No. 8458.

No. 8460.

No. 8464.

No. 8466.

No. 8456. **Burner, Laboratory Gas,** complete with sand bath, 175 mm. diameter and 25 mm. deep. Each, - - - - - - - $ 4.20

This burner is of the radial form and is made with a cylindrical support for various forms of vessels, by which the distance of the vessel from flame can be varied. The support will carry round-bottom flasks, porcelain dishes, or flat-bottom dishes of any size, with perfect steadiness. The flame will burn down to the lowest point steadily.

No. 8458. **Burner, Radial,** heats at the rate of 2000 cc. water in twelve minutes. Each, - - - - - - - - - 1.20

No. 8460. **Burners, Ring form,** to be attached to support.

	A.	B.	C.	D.
Diameter of ring, mm.	75	100	125	150
Price, each,	$1.00	1.25	1.50	1.75

No. 8462. **Burners, Ring form,** same as above, with stopcock.

	A.	B.	C.	D.
Diameter of ring, mm.	75	100	125	150
Price, each,	$2.00	2.25	2.50	2.75

No. 8464. **Burners, Star,** with round base and supports for vessels, etc.

	A.	B.	C.
Diameter of burner, mm.	38	75	85
Price, each,	$ .85	.95	1.10

No. 8466. **Burner, Vaporized Oil,** with reservoir and support. Each, - - $5.00

This burner is operated under air pressure, which is supplied by pump, shown in illustration. It is very desirable where gas cannot be obtained, as it gives an intense heat and burns kerosene oil. Directions for operating the burner are included.

No. 8468.

No. 8470.

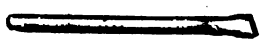
No. 8468. **Burners or Lamps** for alcohol, of glass with metal burner and extinguisher also of metal. The body of these lamps are of such form that they may be placed with the flame at four different angles; wicks included.

	A.	B.	C.
Diameter of burner, mm.,	5	7	12
Price, each,	$ .70	.80	1.00

No. 8470. **Burners or Lamps** for alcohol, of glass, with metal burner and glass cap for extinguishing. Side tube for filling. Body of the lamp is cylindrical and the bottom flat to prevent overturning; wicks included.

	A.	B.	C.	D.
Capacity, cc.,	30	60	100	150
Price, each,	$ .40	.45	.50	.60

No. 8472. Wicking only, per ball, - - - - - - $ .10



No. 8474.

No. 8476.

No. 8478.

No. 8480.

No. 8482.

No. 8484.

No. 8474. **Burner Tube,** for blow-piping with yellow flame, fitting inside the burner, each, - - - - - - - - $ .20

No. 8476. **Burner Tip,** with rest for blow pipe, each, - - - - .20

No. 8478. **Burner Tip,** crown-shaped, giving a round flame; for heating dishes, etc., each, - - - - - - - .40

No. 8480. **Burner Tip,** with gauze, giving a large round flame, each, - - .35

No. 8482. **Burner Tip,** wing-shaped, for bending glass tubing, etc., each, - - .25

No. 8484. **Burner Tripods,** for supporting dishes, etc., over burner,

	A. Small size.	B. Large size.
Price, each,	$. 25	.30

No. 8500.

No. 8504.

No. 8506.

No. 8500. **Brushes, Camel hair,** miniature, in quills with binding.

	A.	B.	C.	D.	E.	F.	G.	H.
Number,	1	2	3	4	5	6	7	8
Length of hair, mm.,	8	10	12	14	16	18	20	22
Price, per ten,	$ .25	.30	.35	.40	.45	.50	.55	.60

No. 8502. **Brushes. Camel hair,** pointed, in swan quills, with silk binding.

	A.	B.	C.
Length of hair, mm.,	18	22	25
Price, per ten,	$ .60	.75	1.00

No. 8504. **Brushes, Bristle,** flat for paste, etc.

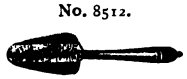
	A.	B.	C.	D.
Width of bristles, mm.,	25	38	50	62
Price, each,	$ .10	.15	.20	.25

No. 8506. **Brushes. Bristles,** round, for marking, etc.

	A.	B.	C.	D.
Length of bristles, mm.,	15	17	19	21
Price, per ten,	$ .75	.80	.90	1.00

No. 8508.

No. 8512.



No. 8514.

No. 8518.

No. 8520.

No. 8508. **Brushes, Russia Sable,** with wooden handles and metal ferrules.

	A.	B.	C.	D.	E.	F.	G.	H.	J.	K.	L.	M.
Number,	1	2	3	4	5	6	7	8	9	10	11	12
Price, per ten,	$ .60	.65	.70	.75	.80	.90	1.00	1.10	1.20	1.30	1.40	1.50

No. 8510. **Brushes. Red Sable,** with wooden handles and metal ferrules

	A.	B.	C.	D.	E.	F.	G.	H.
Number,	0	1	2	3	4	5	6	7
Price, per ten,	$1.00	1.25	1.50	1.75	2.00	2.25	2.50	3.00

No. 8512. **Brushes, Cleaning,** for large jars, etc., each - - - $ .30

No. 8514. **Brushes, Cleaning,** for graduates, cylinders, etc., each, - - .30

No. 8516. **Brushes, Test Tube,** bristle, with wire handle and bristle end, superior quality, per ten, - - - - - - - - .75

No. 8518. **Brushes, Test Tube,** bristle, with metal handle and sponge end, superior quality, per ten, - - - - - - - .75

No. 8520. **Brushes, Test Tube,** sponge with rattan handle, superior quality, per ten, $ .75

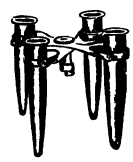
No. 8522. **Brushes, Test Tube,** sponge with whalebone handle, superior quality, per ten, - - - - - - - - - - 1.25

No. 8524. **Brushes, Glass,** for acids, diameter 6 mm., each, - - - - .25

No. 8526. **Brushes, Hand,** for scrubbing, etc., each, - - - - - .10

No. 8540.

No. 8544.



No. 8550.
Attachment for
No. 8542.

No. 8540. **Centrifuge. Single Speed,** spiral geared, complete with sedimentation attachment containing one graduated (No. 8558) and one ungraduated (No. 8560) sedimentation tube and clamp for attaching to table (see illustration No. 8544). Each, - - - - - ***net,*** $10.00

This centrifuge is a very complete and durable instrument, being the same construction as No. 8544, except that it has one less axle. The extremely high speed not being required for *water*, *milk*, urine and sputum examinations, for which this centrifuge is intended.

No. 8542. **Centrifuge. Single Speed,** spiral geared, as described above but with the sedimentation attachment carrying four instead of two tubes. Price includes four glass tubes, either Nos. 8558, 8560 or 8562, as desired. Each, - - - - - - - ***net,*** 13.00

This instrument is recommended for milk testing, as it is much more rapid and accurate than apparatus heretofore employed.

No. 8544. **Centrifuge. Two Speed,** spiral geared, complete with Daland's hæmatokrit and sedimentation attachment (same as No. 8540 shown above,) with one graduated (No. 8558) and one ungraduated sedimentation tube (No. 8560) and two plain sputum tubes. Each, ***net,*** 20.00

This is the most complete and accurately made centrifuge yet constructed, and is designed for the rapid estimation of the number of red corpuscles in blood, quantitative determination of chemical substances in urine, and the rapid collection of organic and other elements in same for microscopical examination, precipitation of tubercle bacilli, crystals and fibers from sputum and milk, determination of facts in milk, collection of sediments from water, etc. The speed is varied from 2000 (urine, sputum, milk, water, etc.) to 10,000 (blood, sputum) per minute by simply changing the handle from one axle to the other; no extra gears or loose parts to get out of order or be mislaid. The attachment with four tubes, as shown above, can be had in place of the regular two-tube attachment at an extra cost of $5.00. This centrifuge is practically noiseless and requires very little power to operate it.

No. 8546. **Centrifuge Carrying Case** of black leather, for No. 8544. Each, ***net,*** 4.00

No. 8548. **Centrifuge Guard** of metal for hæmatokrit. Each, - - *net,* $2.00
This guard is shown in sectional outline in the figure No. 8544 and consists of a neat nickeled metal case so arranged as to completely enclose the hæmatokrit during rotation, so that in case the high speed should be alarming to nervous patients, the rotating part is concealed.

No. 8550. **Centrifuge Sedimentation Attachment** only for Nos. 8540, 8542 or 8544, but carrying four tubes instead of two. Price includes four glass tubes, Nos. 8558, 8560 or 8562, as desired. Each, - *net,* 5.00

No. 8554.

No. 8558.

No. 8560.

No. 8562.

No. 8564.

No. 8552. **Centrifuge Percentage Tubes** for hæmatokrit. Each, - *net,* $ .50

No. 8554. **Centrifuge Lancet** for drawing blood. Each, - - *net,* 1.50

No. 8556. **Centrifuge Sputum Tubes,** for use in hæmatokrit. Each, *net,* .40

No. 8558. **Centrifuge Sedimentation Tubes,** graduated. Each, - *net,* .50

No. 8560. **Centrifuge Sedimentation Tubes,** ungraduated. Each, - *net,* .25

No. 8562. **Centrifuge Milk Tubes,** graduated. Each, - - *net,* .50

No. 8564. **Centrifuge Pipette,** for filling milk tubes. Each, - - *net,* .10

No. 8572.

No. 8574.

No. 8576.

No. 8580.

No. 8582.

No. 8570. **Chamois Skin.** Size 375 x 500 mm., per piece, - - - - $ .50

No. 8572. **Chisels** of best tool steel.

	A.	B.	C.	D.	E.
Thickness of shank, mm.,	8	10	12	18	25
Price, each,	$ .20	.30	.40	.50	.60

No. 8574. **Clamp, Attachable** to apparatus stand with set screw for fixing at any angle, jaws lined with rubber. Each, - - - - - .45

No. 8576. **Clamp, Attachable** to apparatus stand, jaw opening by pressure on lever and held closed by strong spring. Each, - - - .60

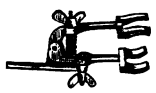
No. 8578. **Clamp, Double,** like No. 8576, but for two pieces of apparatus. Each, - 1.00

No. 8580. **Clamp Holder** for fastening apparatus to support. Each, - - .25

No. 8582. **Clamp Holder, Universal,** may be set at any angle, for fastening to support. Each, - - - - - - - - - $ .50

These clamp holders are light, neat and of ample strength. They may be used to attach clamps, extension rings, ring burners or other apparatus to the supports.

No. 8584.



No. 8586.

No. 8588.

No. 8590.

No. 8584. **Clamp, Beaker,** of spring wire, nickeled. Each, - - - $ .20

No. 8586. **Clamp, Bunsen's Universal,** of brass, for holding irregular shaped articles. Each, - - - - - - - - - 1.00

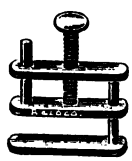
No. 8588. **Clamp, Burrette or Tube,** holds apparatus in any position. Each, - .75

No. 8590. **Clamp, Hoffman's** for two pieces of apparatus. - - - .75

No. 8592.

A.

B.



C.

No. 8594.

No. 8592. **Clamps, Mohr's,** of spring wire, nickeled.

	A. Small.	B. Medium.	C. Large.
Price, each,	$ .15	.16	.20

No. 8594. **Clamps, Hoffman's,** for rubber tubing. B and C can be attached to tubing without disconnecting apparatus. (See illustrations).

	A.	B.	C.
Price, each,	$ .30	.40	.50

No. 8596.

No. 8600.

No. 8602.

No. 8596. **Clamp, Scheibler's,** with spring, opening by pressure. Each, - $ .30

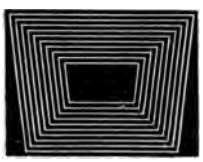
No. 8598. **Clamp, Test tube,** of wood, usual form. Each, - - - .15

No. 8600. **Clamps, Test tube,** of spring wire, made in two sizes.

	A. Small.	B. Large.
Price, each,	$ .15	.20

No. 8602. **Clamps, Watch glass** of brass, nickel plated, made in two sizes.

	A. Small.	B. Large.
Price, each,	$ .20	.25



No. 8610.

No. 8612.

No. 8614.

No. 8610. **Cork Stoppers,** short form, of best quality.

Nos.	00	0	1	2	3	4	5	6
Diameter at larger end, mm.	8	9	10	11	12	14	16	18
Price per hundred,	$ .15	.15	.15	.15	.15	.15	20.	.25

Nos.	7	8	9	10	11	12	13	14
Diameter at larger end, mm.	20	22	24	26	28	29	30	31
Price per hundred,	$ .30	.40	.50	.60	.65	.70	.75	.85

Nos.	15	16	17	18	20	22	24	26
Diameter at larger end, mm.	32	34	36	38	40	43	46	50
Price per hundred,	$ .95	1.05	1.15	1.25	1.50	1.75	2.50	3.00

No. 8612. **Cork Stoppers,** long form, best quality.

Nos.	00	0	1	2	3	4	5	6
Diameter at larger end, mm.	8	9	10	11	12	14	16	18
Price per hundred,	$ .15	.15	.15	.15	.20	.20	.25	.30

Nos.	7	8	9	10	11	12	13	14
Diameter at large end, mm.	20	22	24	26	28	29	30	31
Price per hundred,	$ .40	.50	.60	.70	.80	.90	1.00	1 10

Nos.	15	16	17	18	20	22	24	26
Diameter at larger end, mm.	32	34	36	38	40	43	46	50
Price per hundred,	$1.25	1.50	1.75	2.00	2.25	2.75	3.50	4.25

No. 8614. **Cork Press.** Rotary, made in two sizes:

(a) Taking corks up to 18 mm. diameter. Each, - $ .75
(b) Taking corks up to 32 mm. diameter. Each, - 1.00

No. 8616. **Cork Borers.** (a) Set of three. Per set, - - - - - .60
(b) Set of six. Per set, - - - - - 1.10
(c) Set of nine. Per set, - - - - - 1.50
(d) Set of twelve. Per set, - - - - - 2.00

No. 8618. **Cork Borer Sharpener.** Each, - - - - - - $1.00

No. 8620. **Cork Files,** (special cut), with fine points for perforating corks.

	A.	B.	C.	D.	E.
Length, mm.	75	100	125	150	200
Price, each,	$ .12	.16	.20	.30	.40

No. 8630.

No. 8632.

No. 8630. **Crucibles, Battersea,** round form. The crucibles are suitable for all operations in which the Hessian crucibles are used and are greatly superior to them in absorbing but one-twelfth of their weight in metal, in resisting the action of highly corrosive fluxes, in shape, and in being less heavy.

Crucibles without covers.

	A.	B.	C.	D.	E.	F.
Height, mm.,	65	75	85	100	110	125
Diameter, mm.,	40	45	55	60	70	75
Price, per 10, ***net,***	$ .20	.25	.35	.40	.60	.65
Price, per 100, ***net,***	1.85	2.25	3.25	3.60	5.75	6.25

Covers.

Price, per 10, ***net,***	.25	.25	.25	.25	.35	.45
Price, per 100, ***net,***	2.25	2.25	2.25	2.25	3.25	4.25

Crucibles, without covers.

	G.	H.	J.	K.	L.	M.
Height, mm.,	140	145	165	180	200	215
Diameter, mm.,	85	90	110	115	130	140
Price, per 10, ***net,***	$.90	1.00	1.40	1.45	2.50	3.00
Price, per 100, ***net,***	8.60	9.00	13.00	13.50	24.00	28.00

Covers.

Price, per 10, ***net,***	.60	.70	.70	.90	.90	1.20
Price, per 100, ***net,***	5.50	6.50	6.50	8.75	8.75	10.75

Special prices in large quantities.

No 8632. **Crucibles, Dixon's** black lead or plumbago. Capacity of molten metal of each size in kilos is equal to the number multiplied by one and one-half.

Crucibles, without covers.

Numbers	1	2	3	4	5	6
Height, mm.,	80	100	110	125	135	140
Diameter, mm.,	65	70	85	100	105	110
Price, each, ***net,***	$ .15	.18	.21	.24	.27	.30

Covers.

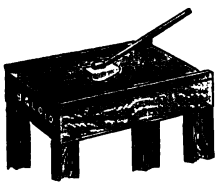
Price, each ***net,***	.10	.10	.10	.10	.10	.15

Crucibles, without covers.

Numbers.	7	8	9	10	12
Height, mm.,	155	165	185	190	200
Diameter, mm.,	125	130	135	150	155
Price, each, ***net,***	$ .33	.35	.38	.40	.45
Covers.					
Price, each, ***net,***	.15	.15	.15	.15	.18

For price of crucible Nos. 14 and upward multiply number desired by .03½ cents and result is price of crucible.

For porcelain crucible, see "Porcelain."



No. 8634.

No. 8638.

No. 8640.

No. 8642.

No. 8634. **Crushers,** plate and rubber of chilled iron, for quickly reducing ores to a fine powder, improved pattern.

Size of plate, centimeters,	A. 45 x 60	B. 60 x 90
Price, each,	$10.00	15.00

No. 8636. **Cupels, Hoskins'.** The cupels are correctly made of the best bone ash, are packed carefully and fully guaranteed.

Size, mm.,	A. 30	B. 38	C. 45
Price, per 10,	$ .25	.35	.50

No. 8638. **Cupel Moulds, Brass,** latest pattern.

Size, mm.,	A. 25	B. 30	C. 38	D. 50
Price, each,	$2.25	2.50	2.75	3.75

No 8640. **Cupel Moulds, Iron,** California pattern.

Size, mm.,	A. 30	B. 38
Price, each,	$2.00	2.50

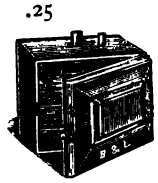
No. 8642. **Cups, Annealing,** Battersea. These cups are perfectly smooth and of the correct porosity.

Cups without covers.

	A.	B.	C.	D.
Height, mm.,	28	30	37	45
Diameter, mm.,	28	30	37	50
Price, per 10, ***net,***	$ .90	.90	.90	.90
Covers,				
Price, per 10, ***net,***	.25	.25	.25	.25

Nos. 8644

Nos. 8646 and 8648.



No. 8660.

No. 8644. **Deflagration Spoon,** for decomposition of water by sodium. Each, $ .45

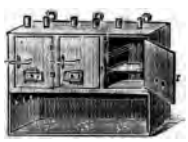
No. 8646. **Deflagration Spoon,** for burning phosphorus, sulphur, etc., in oxygen; diameter of cup, 12 mm. Each, - - - - - - - $ .20

No. 8648. **Deflagration Spoon,** same as No. 8646, but 25 mm. diameter; Each, - .25

No. 8660. **Drying Oven. Single wall** of heavy copper, polished, supported on iron legs. Provided with extra sheet iron bottom to prevent burning of copper. Outside dimensions, exclusive of legs,—height 250 mm., width 250 mm., length 300 mm., with two shelves. Each, - - 8.00

No. 866a and 8664.

No. 8666.



No. 8668.

No. 8662. **Drying Oven, Hot Air.** This apparatus is made of iron throughout, double walled, and has ventilators at top for controlling temperature. Suitable tubes for thermostat and thermometer are provided. Base enclosed for protection of burner flame and retaining greatest amount of heat. Dimensions inside: Height, 225 mm.; width, 150 mm.; depth, 150 mm. Each, - - - - - - 10.00

No. 8664. **Drying Oven, Medium Size, Hot Air.** Made of best *Russia* iron inside and covered with heavy asbestos board. Supported on closed base for protecting of flame and retaining heat. The chamber is fitted with three shelves and will accommodate vessels of varying size. Tubes for thermostat and thermometer. Inside dimensions of chamber: Height, 240 mm.; width, 300 mm.; depth, 240 mm. Each, 18.00

No. 8666. **Drying Oven, Large Size, Hot Air.** The construction of this apparatus is the same as 8664, except that a pipe form of Bunsen burner is arranged around the extreme lower part of the oven, giving an extremely even temperature and making the purchase of a burner unnecessary. Inside dimensions are: Height, 475 mm.; width, 300 mm.; depth, 240 mm. Each, - - - - - - 25.00

No. 8668. **Drying Oven, Fresenius,** large size, single wall, with three chambers each, 175 x 175 x 220 mm. This bath is constructed of polished copper throughout, and has three drying compartments each provided with its own door, tubes for thermostat and thermometer and two shelves, with partly enclosed base, as shown in illustration, and hooks for suspending from wall. Each, - - - - - - 20.00

No. 8680. **Extraction,** cartridges or capsules, Schleicher & Schuell's, for use in extraction apparatus, can be used over and over again.

	A.	B.	C.
Length, mm.	80	80	90
Diameter, mm.	22	33	19
Price, per 25,	$2.00	2.00	2.00

No. 8700. **Files, Triangular,** best quality, for cutting glass tubing, etc.

	A.	B.	C.	D.	E.	F.
Length, mm.	75	100	125	150	175	200
Price, each,	$ .12	.15	.20	.25	.30	.35

No. 8702. **Files, Round, or Rat Tail,** best quality, with fine point.

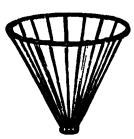
	A.	B.	C.	D.	E.	F.
Length, mm.	75	100	125	150	175	200
Price, each,	$ .12	.15	.20	.25	.30	.35

No. 8704. **Files, Flat,** best quality.

	A.	B.	C.	D.	E.	F.
Length, mm.	75	100	125	150	175	200
Price, each.	$ .15	.20	.25	.30	.35	.40

No. 8706. **File Handles,** best quality, per ten, - - - - - - $ .40

No. 8720.



No. 8724.

No. 8720. **Filter, Hot Water,** supported on three legs, with water chamber from the side, for heating. Each, - - - - - - 4.00

No. 8722. **Filter, Hot Water,** consisting of conical copper water chamber, supported by a circular Bunsen burner, in which a glass funnel of 150 mm. diameter is placed; adjustable for height; complete, with stand. Each, - - - - - - - - - 4.00

No. 8724. **Filter Racks,** of galvanized iron wire, constructed so as to permit folding, thus answering purpose of squeezer and rack combined.

	A.	B.	C.	D.
Size mm.	125	175	225	300
Price, each,	$ .35	.45	.65	.75

No. 8750.

No. 8760.

No. 8766.

No. 8750. **Filter Paper, B. & L. O. Co.** A good white filter paper, found by a series of tests to be equal to higher priced papers. Packages of 100 sheets, under our own trade-mark. Cut round.

	A.	B.	C.	D.	E.	F.
Diameter, ctm.	5.5	7	9	11	12.5	15
Price per 100 sheets,	$ .08	.08	.10	.12	.15	.25
	G.	H.	J.	K.	L.	M.
Diameter, ctm.	18.5	24	27	32	38.5	50
Price per 100 sheets,	$ .35	.50	.65	.80	1.00	1.75

No. 8751. **Filter Paper, B. & L. O. Co.** Same quality as above, folded. Packages of 100 sheets under our own trade-mark.

	A.	B.	C.	D.	E.
Diameter, ctm.	12.5	15	18.5	24	27
Price per 100 sheets,	$ .50	.60	.70	.85	1.00

No. 8752. **Filter Paper,** B. & L. O. Co. Same quality as above in sheets 48 x 48 ctm. Per 100 sheets, - - - - - - $ 1.50

No. 8753. **Filter Paper,** B. & L. O. Co. A fine quality of grey filter paper, tough and durable. Packages of 100 sheets. Cut round.

	A.	B.	C.	D.	E.	F.	G.
Diameter, ctm.	15	19	25	33	40	45	50
Price per 100 sheets,	$ .25	.35	.45	.65	.90	1.15	1.35

No. 8754. **Filter Paper,** B. & L. Co. Same quality as No. 8753, in sheets 50 x 50 ctm. Per 100 sheets, - - - - - - - - $1.10

No. 8756. **Filter Paper, Schleicher and Schuell,** No. 595 thin, white, in packages of 100 sheets, cut round.

	A.	B.	C.	D.	E.	F.
Diameter, ctm.	5.5	7	9	11	12.5	15
Price per 100 sheets,	$ .15	.20	.25	.30	.35	.40

	G.	H.	J.	K.	L.
Diameter, ctm.	18.5	24	27	32	38.5
Price per 100 sheets,	$ .50	.75	1.00	1.25	1.50

No. 8758. **Filter Paper, Schleicher and Schuell,** No. 595, thin, white, in sheets each bearing the manufacturer's water mark, and number. Size of sheets 48 x 48 ctm. Per 100 sheets, - - - - - - 2.40

No. 8760. **Filter Paper, Schleicher and Schuell,** No. 597, thick, white, in packages of 100 sheets, cut round.

	A.	B.	C.	D.	E.	F.
Diameter, ctm.,	5.5	7	9	11	12.5	15
Price per 100 sheets,	$ .20	.25	.30	.35	.40	.50

	G.	H.	J.	K.	L.	M.
Diameter, ctm.,	18.5	24	27	32	38.5	50
Price per 100 sheets,	$ .65	.90	1.15	1.50	2.00	3.00

No. 8762. **Filter Paper, Schleicher and Schuell,** No. 597, thick, white, in sheets each bearing manufacturer's water mark and number, size of sheets, 58 x 58, ctm., per 100 sheets, - - - - - $4.25

No. 8764. **Filter Paper, Schleicher and Schuell,** No. 588, folded filters, in packages of 100 sheets, cut round.

	A.	B.	C.	D.	E.	F.
Diameter, ctm.,	12.5	18.5	24	32	38.5	50
Price per 100 sheets,	$ .40	.55	.80	1.35	1.75	2.75

Filter Paper, Swedish, Munktell's, all filters of this manufacture are put up in the most careful manner, 500 filters in five packages being packed in a birch bark box, preventing injury from dust or moisture, and affording a perfect container for it in the laboratory.

No. 8766. **Filter Paper, Munktell's No. 0.** Washed with hydrochloric acid, removing traces of iron, alumina, lime, etc. The ash is reduced to a minimum, and a high standard of purity is secured. An uniform and quick filter; 100 filters in each package, cut round.

	A.	B.	C.	D.	E.	F.	G.
Diameter, ctm.,	5.5	7	9	11	12.5	15	18.5.
Weight of ashes, gram.	0.00011	0.00015	0.00029	0.00044	0.00056	0.00081	——
Price per 100 sheets,	$ .20	.27	.42	.55	63	.85	1.25

No. 8768. **Filter Paper, Munktell, No. 0,** same quality as above, in sheets 48 x 48 ctm., per 10 sheets, - - - - - - $ .85

No. 8770. **Filter Paper, Munktell, No. 00,** for special scientific work, washed in hydrofluoric and hydrochloric acids; 100 filters in a package, cut round.

	A.	B.	C.	D.	E.	F.
Diameter, ctm.,	5.5	7	9	11	12.5	15
Weight of ashes, gram,	0.00003	0.00005	0.00008	0.00013	0.00016	0.00024
Price per 100 sheets,	$ .50	.55	.80	1.00	1.10	1.25

No. 8772. **Filter Paper, Munktell, No. 1, F.** Original Swedish, of best linen material; most perfect filtering paper made, smallest amount of ash of any unwashed paper; very strong; adapted to highest class of chemical work; in packages of 100 filters, cut round.

	A.	B.	C.	D.	E.	F.	G.
Diameter, ctm.,	5.5	7	9	11	12.5	15	18.5
Weight of ashes, gram,	0.00025	0.00040	0.00066	0.00098	0.00127	0.00183	—
Price per 100 sheets,	$ .11	.16	.25	.30	.40	.50	.75

No. 8774. **Filter Paper, Munktell, No. 1, F,** same quality as above in sheets 48 x 48 ctm., per 100 sheets, - - - - - $4.00

No. 8776. **Filter Paper, Munktell, No. 2,** a pure, white linen paper of medium thickness, not so closely made, therefore more rapid in filtration; a superior paper for laboratory work; in packages of 100 filters, cut round.

	A.	B	C.	D.	E.	F.	G.
Diameter, ctm.,	5.5	7	9	11	12.5	15	18.5
Weight of ashes, gram,	0.00027	0.00044	0.00073	0.00109	0.00140	0.00202	—
Price per 100 sheets,	$ .10	.13	.20	.26	.31	.40	.53

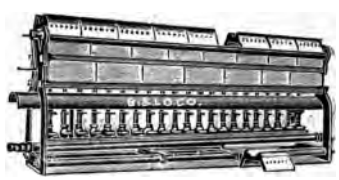
No. 8778. **Filter Paper, Munktell, No. 2,** same quality as above, in sheets 48 x 48 ctm., per 100 sheets, - - - - - - - $3.40

No. 8780. **Forceps,** steel, plain.

	A.	B.	C.	D.
Length, mm.,	75	100	125	150
Price, each,	.12	.15	.20	.25

No. 8800.

No. 8802.



No. 8804.

No. 8800. **Furnace, Combination No. 1.** Hoskins', as shown above. On the right, is a furnace prepared for crucible work, same size as No. 8806 a, by lifting off the cover and substituting the part with the muffle opening and sliding in the muffle, the furnace is prepared as shown in the left. A scorification or two cupellations may be made in this furnace with perfect satisfaction. Weight complete, eleven kilos.

(a) as above described. Each - - - - - $ 8.00
(b) as above and with furnace blow-pipe No. 8850 a. Each, 35 00
(c) as above and with furnace blow-pipe No. 8850 b. Each, 39.00

No. 8802. **Furnace Combination No. 2,** Hoskins. Will take same size crucible as No. 8806 crucible furnace and uses muffle 15 x 8.75 x 6.25 centimeters, and is always ready for either crucible or muffle work or both. Furnace weighs 16 kilos, height 30 ctm., length 32.5 ctm., width 22.5 ctm.

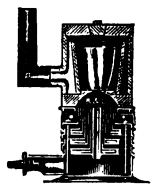
(a) as above described. Each, - - - - - $12.00
(b) as above and with furnace blow-pipe No. 8850 a. Each, 39.00
(c) as above and with furnace blow-pipe No. 8850 b. Each, 43.00

No. 8804. **Furnace, Combustion.** Glazer's, modified by Auschetz and Kekule, provided with mica plates for watching flame during combustion. The row of burners is movable in a furrow, the burners are provided with spring stop-cocks and nickel-plated air regulators. Complete, with top plates of clay and with 21 burners. Each,- - - - $45.00

No. 8806 a and b.

No. 8806 c.

No. 8806 d.



No. 8808.

No. 8806. **Furnace, Crucible.** Hoskins. These furnaces are suitable for all crucible work, for melting assay charges, sample smelting charges, metals, etc.

(a) Diameter 10 ctm., depth inside 13.5 ctm. Each, - - $ 4.75
(b) Diameter 12.5 ctm., depth inside 16 ctm. Each, - - 6.00
(c) Long form, taking two Colorado B. crucibles, Battersea or equivalent. A very effective furnace. Each, - 8.40
(d) Long form, taking four Battersea round crucibles, F. or equivalent. Very efficient furnace for large quantities of work. Each, - - - - - - 14.00

No. 8808. **Furnace, Crucible.** This furnace will take crucibles up to 10 x 7.5 ctm., holding about three kilos when full, and with a 12 mm. gas pipe and pressure of gas equal to 60 cc. of water, supplying about 50 feet per hour, will melt a crucible of gold, silver or brass in about 30 minutes and the same quantity of cast iron in about 60 minutes, from the time the gas is lighted. It is made in a very substantial manner. The lid can be lifted away by a handle provided for the purpose. The furnace is supplied with an improved pattern of burner, which gives a number of concentric flames (see illustration).

Furnace as above described, with 180 ctm. of pipe, crucible, cylinder and tongs complete. Each, - - - - - - 19.00

(a) Plumbago crucibles No. 3. Each, - - - - .35
(b) Plumbago cylinders. Each, - - - - 1 20
(c) Fire-clay casing. Each, - - - - 3.60
(d) Lid. Each, - - - - - - 1.20
(e) Grate. Each, - - - - - - 1.20
(f) Burner. Each, - - - - - - 9.60
(g) Burner tubes, all sizes. Each, - - - - .30
(h) Wire gauze rings. Each, - - - - - .30

No. 8810.

No. 8812.

No. 8810. **Furnace, Crucible.** Fletcher's, with perfect non-conducting casing. The material is only one-sixth the weight of fire-clay and has not one-tenth its conducting power for heat. The furnace consists of a simple pot, for holding the crucible, with a lid and a blow-pipe, all mounted on a suitable iron base. 250 grams of cast iron can be perfectly fused in from seven to twelve minutes, depending on the gas supply and air pressure. The crucible will hold 300 grams of gold. Gas from a 10 mm. supply pipe will work it efficiently. About ten cubic feet of gas per hour is sufficient for most purposes.

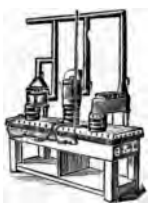
As above, with one crucible 55 mm. high, without foot blower. Each, - - - - - - $ 3.60
(a) Extra furnace body, - - - - - - .90
(b) Extra furnace body and cover, - - - - 1.35
(c) Burner only, - - - - - - - 1.20
(d) Stand without burner or body, - - - - 1.05

No. 8812. **Furnace, Crucible,** with improved gas burner, same body as above. The burner on this furnace is of the same pattern as that used with the "Perfected" Injector Furnace, No. 8018. It is almost noiseless in action and works with a very small gas supply, producing much more economical results than any gas burner heretofore used for the purpose of heating furnaces. A 10 mm. gas supply pipe is required.

As above described with one crucible, 55 mm. high without foot blower, each, - - - - - - - - - $4.00
(a) Extra burner, only - - - - - - 1.80

For extra furnace parts see No. 8810.

No. 8814


No. 8816.

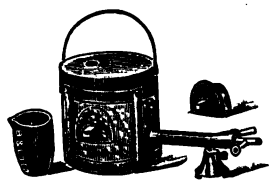
No. 8814. **Furnace, Crucible,** for use with kerosene, retaining all the peculiar advantages of the original gas furnaces, as described under Nos. 8810 and 8812, but burning refined petroleum or kerosene instead of gas as fuel. Recommended as being fully equal in efficiency to the gas furnaces. The burner is constructed on the principle of an atomizer, thus dispensing with a wick. Supplied with device for regulating the supply of oil.

As above described, with one crucible 55 mm. high, without foot blower, each - - - - - - - - - $5.40
(a) Kerosene burner, only, each, - - - - 3.00
(b) Plumbago crucibles, 55 mm. high, each - - - .24

For extra furnace parts see No. 8810.

No. 8816. **Furnace, Gas** Assayer's plant, consisting of a group of gas assaying furnaces as arranged by Walter Lee Brown. A full description appears in his "Manual of Assaying." The furnace at the left (see illustration) is for roasting sulphurets, etc., the centre one (No. 8808) is for crucible fusions, it taking a Battersea crucible, 12.5 ctm. deep by 10.5 ctm. diameter, and the one at the right is the furnace for scorification and cupellation.

As above described, including three furnaces, with plumbago fittings, chimney pipe, horizontal gas pipe and three 10 mm. taps, as illustrated, without rubber tubing or bench, each - - - - $60.00
(a) Fire-brick covered bench, each - - - - 30.00
(b) Extra taps, 10 mm., each - - - - 1.05



No. 8818.

No. 8822.

No. 8818. **Furnace, Injector, perfected,** combined for crucible and muffle work. This furnace is supplied with muffle fittings and can be used as either a crucible or muffle furnace. The body of the furnace is large enough to hold a crucible 160 mm. high, holding 5.5 kilos of metal. The cover has a projection on one side which will reduce the height of the cavity of the furnace about 50 mm., the proper size to receive a muffle or crucible 100 mm. high. Gas supply must be from a 12 mm. or still better an 18 mm. pipe ; as above described, fitted for gas with one muffle and one crucible 100 mm. high, without foot blower. Each, $13.00

No. 8820. **Furnace, Injector, perfected,** same as above, but fitted for use with gasoline, with one muffle and one crucible 100 mm. high, including generator and tubing, without foot blower. Each, - - - - 32.00

Fire clay body, cover and two plugs only for either Nos. 8818 or 8820 furnace, - - - - - - - - - 9.00

No. 8822. **Furnace, Injector, perfected,** fitted for use of fine petroleum or kerosene as fuel, as simple and effective as gas, requiring no more trouble or attention. Highly recommended where gas is not available. The number of burners used varies with the size of the furnace, and a foot blower of proportionate size will be required.

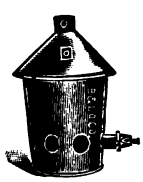
Cast iron can be fused without much difficulty and in a short time.

(a) As above described, with two burners and one crucible 75 mm. high. Each, - - - - - 12.00

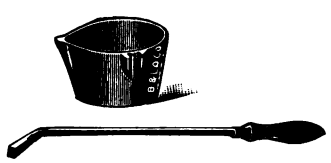
(b) Body, cover and dome only, for (a) - - - - 3.60

(c) Same as (a) but with three burners and one crucible 100 mm. high. Each, - - - - - 15.60

(d) Body, cover and dome only, for (c) - - - 6.00



No. 8824.



No. 8826.

No. 8828.

No. 8824. **Furnace, Ladle,** with Fletcher's solid flame heating burner, for melting lead, tin, zinc and their alloys. The burner is simple and safe, working well with any gas supply available, giving proportionate speed of working. It can be removed from the casing and used for other purposes if desired. Capacity of burner, 35 feet per hour, supply pipe, 10 mm.

(a) As above described without ladles. Each, - - $4.20

(b) As above, but with cap nut regulator for gasoline gas. Each, - - - - - - - 4.50

No. 8826. **Furnace Ladles,** with detachable handles, for use with furnace No. 8824, made of cast iron in three sizes. One handle will fit any ladle and can be removed while it is on the fire.

(a) Size 10 x 5.5 ctm. inside, without handle. Each, - $ .30
(b) Size 10.5 x 6.5 ctm. inside, without handle. Each, - .40
(c) Size 11 x 6.5 ctm. inside, without handle Each - - .48
(d) Handles only, for any of above. Each, - - - .30

Furnace, Lecture and Experimental. Fletcher's, working with the same burner as a draft or blast furnace at any temperature up to the fusion of the casing. Adapted for crucibles, muffles, tubes, cupels, distillation by descension, treatment of refractory substances with gases at high temperature, small forgings, roasting ores, etc. This furnace is especially designed for the lecture table, and has, we believe, power and capabilities equal to any demands which may be made upon it. It is impossible, however, to supply any furnace casing which will stand excessively high temperatures, or the contact of fluxes, without damage. Although not silent when in use at the highest power, a lecturer with a good voice can be heard while it is working.

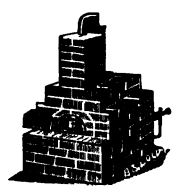
When used as a blast furnace, as shown in left of illustration, an empty crucible 6.2 x 5.6 ctm. can be raised to the fusing point of cast iron in two minutes from time flame is lighted.

By turning the casing on its side, as shown in right of illustration, the contents may be seen by a class whilst the furnace is working, and it can, in this position, be used for crucibles, muffles, combustion tubes, cupels or roasting, and with either draft or blast, according to the temperature required.

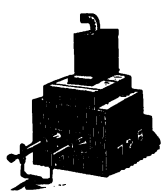
Crucibles larger than 6 x 6.2 ctm. must not be used.

No. 8828. **Furnace.** As described above, with one muffle and one crucible 6 x 6.2 ctm. without foot blower. Each, - - - - - - - 21.60
(a) Burner only, - - - - - - - 6.00
(b) Extra muffles, salamander. Each, - - - .96
(c) Extra muffles, fire clay. Each, - - - - .48

No. 8830 (a & b.)



No. 8830 (c.) front view.

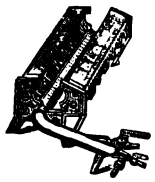


No. 8830 (c.) rear view.

Furnaces, Muffle, Hoskins. These furnaces are made after the latest designs and are adapted to all purposes where muffles are required. They require a length or two of stove pipe in order to create a draft through the muffle, or they may be connected with a flue; in the latter case a damper must be put in the pipe. Furnaces (a) and (b) may be raised to a good heat in fifteen minutes and furnace (c) in thirty minutes.

No. 8830. **Furnaces.** (a) As above described, taking Battersea muffle, 20 x 12 x 7.5 ctm., each, - - - - - - $12.00
(b) As above described, taking Battersea muffle, 25 x 15 x 10 ctm., each, - - - - - - 18.00
(c) As illustrated, taking muffle 37.5 x 22.5 x 15 ctm. This furnace is shipped in parts ready to put together and brick up. It requires two No. 8850 b blowpipes or the No. 8852 blowpipe. Price includes all special bricks and full directions for setting and bricking up with common brick, including one muffle, each, - 30.00

No. 8832-8838.



No. 8840-8844.

Furnaces, Muffle. For assaying, enameling and all purposes where exact temperatures are required, not exceeding the fusing point of copper. The burners of these furnaces are of the same construction as No. 8808.

No. 8332. **Furnace.** As above described, muffle space, 7.5 x 10 x 6.3 ctm., requires 12 mm. bore gas pipe and tap, with burner, muffle, dome, crucible tongs and six feet chimney pipe, each, - - - - - $20.00
(a) Plumbago muffles, each, - - - - - 1.20
(b) Plumbago domes, each, - - - - - 1.20
(c) Chimney pipe, per length, - - - - - .40

No. 8834. **Furnace.** Same as above, muffle space, 9.5 x 12.5 x 7.5 ctm. requires 18 mm. bore, gas pipe and tap with burner, muffle, dome, crucible tongs and six feet of chimney pipe, each, - - - - - 24.00
(a) Plumbago muffles, each, - - - - - 1.50
(b) Plumbago domes, each, - - - - - 1.50
(c) Chimney pipe, per length, - - - - .48

No. 8836. **Furnace.** Same as above, muffle space, 11 x 17.5 x 9 ctm., requires 18 mm. bore, gas pipe and tap, with burner, muffle, dome, crucible tongs and six feet of chimney pipe, each, - - - - - 36.00
(a) Plumbago muffles, each, - - - - - 1.80
(b) Plumbago domes, each, - - - - - 1.80
(c) Chimney pipe, per length, - - - - .54

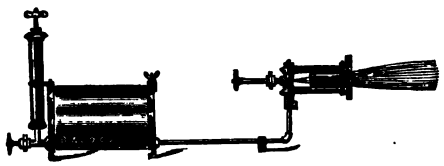
No. 8838. **Furnace.** Same as above, muffle space, 13 x 20 x 11 ctm. requires 25 mm. bore, gas pipe and tap with burner, muffle, dome, crucible tongs and six feet chimney pipe, each, - - - - - - - 54.00
(a) Plumbago muffles, each, - - - - - 3.00
(b) Plumbago domes, each, - - - - - 3.00
(c) Chimney pipe, per length, - - - - - .72

Furnace, Tube, Fletcher's, for gasoline, gas or coal gas. This furnace will heat an iron tube 18 to 25 mm. diameter to its softening point in ten minutes, using a No. 8332 foot blower; or it will heat the same tube to redness without a blast, the burner being applicable for either draft or blast.

	A.	B.	C.
Length of furnace, centimeters,	30	45	60
No. 8840. Furnace, Tube. For draft or blast, with adjustable flame length, - - - -	$14.40	$19.20	$24.00
No. 8842. Furnace, Tube. For draft or blast without adjustable flame length, - - -	12.00	15.60	20.40
No. 8844. Furnace, Tube. With fixed length of flame, without blast, - - - - -	9.60	13.20	16.80

No. 8846. Furnace, Tube, Fire casing blocks, 15 ctm. long, each, - - $ .60

No. 8848.



No. 8850.

No. 8852.

No. 8848. **Furnace, Tube,** Fletcher's new pattern. This furnace differs from others in that the burners are outside and in front of the furnace, clear from all falling dirt. Constructed entirely of brass, thus avoiding rust.

The furnace body is in 15 ctm. sections and can be made up to any length, without obstruction; the burners also can be made any length and any part of them used. The burners can be supplied in sections of 30 or 60 ctm., so that any number can be used in a line without a break. It is free from smell in use, otherwise it is similar to the ordinary Hoffman furnace.

(a) Furnace as above described, length 30 ctm. Each, $25.00
(b) Furnace as above described, length 60 ctm. Each, - 50.00
(c) Extra cover blocks for above. Each, - - - .40

No. 8850. **Furnace Blowpipes.** Made entirely of brass, very strong, will not rust.
(a) With half gallon tank. Each, - - - - 27.60
(b) With one gallon tank. Each, - - - - 31.20
(c) Extra burners, only for either of above. Each, - - 7.20

No. 8852. **Furnace Blowpipe** made of heavy copper, with suitable pump, pressure gauge, ten feet of pipe, elbows, etc. This blowpipe is of very best workmanship and will be found very convenient when large quantities or continuous work is required with any of the furnaces quoted.
With two burners and five gallon tank complete. Each, - - 60.00

Glassware, Plain.—Under this heading will be found only glassware without graduations. For graduated glassware see heading beginning with No. 9600.

No. 8900.

No. 8902.

No. 8904.

No. 8906.

No. 8900. **Adapters, Straight.** For connecting retorts with receivers.

	A.	B.	C.	D.
Length, mm.,	130	150	200	250
Diameter, mm.,	25	40	50	60
Price, each,	$ .20	.25	.30	.40

No. 8902. **Adapters, Curved.** For connecting retorts with receivers.

	A.	B.	C.	D.
Length, mm.,	130	150	200	250
Diameter, mm.,	25	40	50	60
Price, each,	$ .20	.25	.30	.40

No. 8904. **Air Pump.** Geisslers, as illustrated, Each, - - - -$ .60

No. 8906. **Air Pump.** With conical outlet, as illustrated. Each, - - - 1.20

No. 8908.

No. 8912.

No. 8916.

No. 8922.

No. 8908. **Beakers, ordinary** form without lip. These beakers are of the best quality Bohemian glass and are properly annealed.

	A.	B.	C.	D.	E.	F.	G.
Nos.	000	00	0	1	2	3	4
Capacity, cc.,	15	20	30	60	90	130	170
Price, each,	$ .05	.06	.07	.08	.10	.12	.15

	H.	J.	K.	L.	M.	N.
Nos.	5	6	7	8	9	10
Capacity, cc.,	250	320	450	600	800	1100
Price, each,	$ .18	.22	.26	.30	.35	.40

No. 8910. **Beakers, ordinary** form without lip, quality of above, nested.

(a)	Nos. 000 to 1 inclusive, per nest, - - - -	$ .25
(b)	" 000 to 2 inclusive, per nest, - - - -	.35
(c)	" 000 to 3 inclusive, per nest, - - - -	.45
(d)	" 000 to 4 inclusive, per nest, - - - -	.60
(e)	" 000 to 5 inclusive, per nest, - - - -	.75
(f)	" 000 to 6 inclusive, per nest, - - - -	1.00
(g)	" 000 to 7 inclusive, per nest, - - - -	1.25
(h)	" 000 to 8 inclusive, per nest, - - - -	1.50
(j)	" 000 to 9 inclusive, per nest, - - - -	1.85
(k)	" 000 to 10 inclusive, per nest, - - - -	2.25

No. 8912. **Beakers, ordinary** form with lip, same quality as above.

	A.	B.	C.	D.	E.	F.	G.
Nos.	000	00	0	1	2	3	4
Capacity, cc ,	15	20	30	60	90	130	170
Price, each, $	.10	.11	.12	.13	.14	.15	.16

	H.	J.	K.	L.	M.	N.
Nos.	5	6	7	8	9	10
Capacity, cc.,	250	320	450	600	800	1100
Price, each, $	.18	.22	.26	.30	.35	.40

No. 8914. **Beakers, ordinary** form with lip, same quality as above, nested.

(a)	Nos. 000 to 1 inclusive, per nest,	- - - -	$ .45
(b)	" 000 to 2 inclusive, per nest,	- - - -	.55
(c)	" 000 to 3 inclusive, per nest,	- - - -	.70
(d)	" 000 to 4 inclusive, per nest,	- - - -	.85
(e)	" 000 to 5 inclusive, per nest,	- - - -	1.00
(f)	" 000 to 6 inclusive, per nest,	- - - -	1.25
(g)	" 000 to 7 inclusive, per nest,	- - - -	1.50
(h)	" 000 to 8 inclusive, per nest,	- - - -	1.75
(j)	" 000 to 9 inclusive, per nest,	- - - -	2.10
(k)	" 000 to 10 inclusive, per nest,	- - - -	2 50

No. 8916. **Beakers, Griffin's,** low form, with lip; made of best Bohemian glass.

	A	B	C	D	E	F	G
Nos.	0000	000	00	0	1	2	3
Capacity, cc.,	15	20	30	60	100	150	200
Price, each, $	.12	.13	.14	.15	.16	.18	.20

	H	J	K	L	M	N
Nos.	4	5	6	7	8	9
Capacity, cc.	280	330	550	800	1100	1500
Price, each, $	.22	.25	.30	.40	.50	.60

No. 8918. **Beakers, Griffin's,** low form, with lip, same as above, nested.

(a)	Nos. 0000 to 0 inclusive, per nest,	- - -	$ .50
(b)	" 0000 to 1 inclusive, per nest,	- - -	.65
(c)	" 0000 to 2 inclusive, per nest,	- - -	.80
(d)	" 0000 to 3 inclusive, per nest,	- - -	1.00
(e)	" 0000 to 4 inclusive, per nest,	- - -	1.20
(f)	" 0000 to 5 inclusive, per nest,	- - -	1.40
(g)	" 0000 to 6 inclusive, per nest,	- - -	1 70
(h)	" 0000 to 7 inclusive, per nest,	- - -	2.00
(j)	" 0000 to 8 inclusive, per nest,	- - -	2.50
(k)	" 0000 to 9 inclusive, per nest,	- - -	3.00

No. 8920. **Beakers, Jena glass,** Griffin's, low form, with lip.

	A	B	C	D	E	F	G	H	J
Nos.	1	2	3	4	5	6	7	8	9
Capacity, cc.	50	100	150	250	400	600	800	1000	1300
Price, each, $	.20	.25	.30	.40	.50	.60	.70	.80	.90

No. 8922. **Beakers,** with ground label, for pencil notes, any of the above forms furnished on order. 15 to 330 cc. 450 to 1500 cc.

Add to regular price of Beakers, each, .04 .06

For Beakers of aluminum see "Beakers," page 18.

No. 8930.

No. 8932.

No. 8936.

No. 8930. **Bell Glass. Double walled** for physiological work. The jar may be filled with colored fluid acting as a ray filter for determining the effect of various rays on plant functions, etc.

	A.	B.
Height, mm.,	300	400
Diameter, mm.,	120	150
Price, each,	$5.25	$6.50

No. 8932. **Bell Glass, Open top**, of clear white glass, with perfectly ground lip for air tight connections.

	A.	B.	C.	D.	E.
Height, mm.,	155	170	155	200	300
Diameter, mm.,	50	90	100	150	200
Price, each,	$ .50	.60	.75	1.00	1.25

No. 8934. **Bell Glass, Open top,** with ground glass stopper, and perfectly ground lip for air tight connections.

	A.	B.	C.	D.	E.
Height, mm.,	155	170	155	200	300
Diameter, mm.,	50	90	100	150	200
Price, each,	$ .60	.75	1.00	1.25	1.50

No. 8936. **Bell Glass, High form,** for covering microscopes, etc., with knob and perfectly ground lip for air tight connections.

	A.	B.
Height, mm.,	350	425
Diameter, mm.,	200	225
Price, each,	$ 1.50	2.00

No. 8938.

No. 8940.

No. 8938. **Bell Glass, Low form,** of heavy clear white glass, with knob and perfectly ground lip for air tight connections.

	A.	B.	C.	D.	E.
Height without knob, mm.,	80	105	130	180	235
Diameter, mm.,	80	105	130	155	185
Price, each,	$.50	.60	.75	1.00	1.25

No. 8940. **Bell Glass, Low form,** of heavy clear white glass, for covering purposes.

	A.	B.	C.	D.
Diameter, mm.,	200	240	300	400
Price, each,	$.60	1.00	1.75	2.50

No. 8950.

No. 8958.

No. 8966.

No. 8950. **Bottles, Flint,** narrow mouth.

	A.	B.	C.	D.	E.	F.	G.	H.	J.	K.
Capacity, cc.,	15	30	50	75	100	150	250	375	500	1000
Price, per 10, $	.15	.20	.25	.30	.35	.40	.50	.60	.75	1.00

No. 8952. **Bottles, Blue,** narrow mouth.

	A.	B.	C.	D.	E.	F.
Capacity, cc.,	30	50	100	250	500	1000
Price, per 10, $	.25	.30	.40	.50	.75	1.00

No. 8954. **Bottles, Amber,** narrow mouth.

	A.	B.	C.	D.	E.	F.
Capacity, cc.,	30	50	100	250	500	1000
Price, per 10, $	.25	.30	.40	.50	.75	1.00

No. 8956. **Bottles, Green,** narrow mouth.

	A.	B.	C.	D.	E.	F.	G.
Capacity, cc.,	125	250	500	1000	2000	4000	8000
Price, per 10, $	.25	.35	.50	.90	1.40	2.00	6.00

No. 8958. **Bottles, Flint,** wide mouth.

	A.	B.	C.	D.	E.	F.	G.	H.	J.	K.
Capacity, cc.,	15	30	50	75	100	150	250	375	500	1000
Price, per 10, $	.15	.20	.25	.30	.35	.40	.60	.75	1.00	1.25

No. 8960. **Bottles, Blue,** wide mouth.

	A.	B.	C.	D.	E.	F.
Capacity, cc.,	30	50	100	250	500	1000
Price, per 10, $	.25	.30	.40	.60	1.00	1.25

No. 8962. **Bottles, Amber,** wide mouth.

	A.	B.	C.	D.	E.	F.
Capacity, cc.,	30	50	100	250	500	1000
Price, per 10, $	.25	.30	.40	.60	1.00	1.25

No. 8964. **Bottles, Green,** wide mouth.

	A.	B.	C.	D.	E.	F.	G.
Capacity, cc.,	125	250	500	1000	2000	4000	8000
Price, per 10, $	.30	.50	.75	1.00	2.00	3.00	7.50

No. 8966. **Bottles, Flint,** extra wide mouth.

	A.	B.	C.
Capacity, cc.,	30	60	120
Price, per 10, $	.30	.35	.50

No. 8970.

No. 8972.

No. 8980.

No. 8982.

No. 8970. **Bottles, Flint,** narrow mouth, with mushroom glass stopper.

	A.	B.	C.	D.	E.	F.	G.	H.	J.	K.
Capacity, cc.,	15	30	50	75	100	150	250	375	500	1000
Price, per 10, $	.50	.60	.75	.90	1.05	1.25	1.50	1.75	2.00	2.25

No. 8972. **Bottles, Flint,** narrow mouth, with flat head, glass stopper.

	A.	B.	C.	D.	E.	F.	G.	H.	J.	K.	L.
Capacity, cc.,	15	30	50	75	100	150	250	375	500	1000	2000
Price, per 10, $	.50	.60	.75	.90	1.05	1.25	1.50	1.75	2.00	2.25	3.00

No. 8974. **Bottles, Blue,** narrow mouth, with flat head, glass stopper.

	A.	B.	C.	D.	E.	F.	G.
Capacity, cc.,	30	50	100	250	500	1000	2000
Price, per 10, $	.60	.75	1.05	1.50	2.00	2.25	3.00

No. 8976. **Bottles, Amber,** narrow mouth, with flat head, glass stopper.

	A.	B.	C.	D.	E.	F.	G.
Capacity, cc.,	30	50	100	250	500	1000	2000
Price, per 10, $	.60	.75	1.05	1.50	2.00	2.25	3.00

No. 8978. **Bottles, Green,** for acids, narrow mouth, with flat head, glass stopper.

	A.	B.	C.	D.	E.	F.	G.
Capacity, cc.,	125	250	500	1000	2000	4000	8000
Price, per 10,	$1.25	1.50	1.75	2.00	3.00	4.00	8.00

No. 8980. **Bottles, Flint,** wide mouth, with mushroom glass stopper.

	A.	B.	C.	D.	E.	F.	G.	H.	J.	K.
Capacity, cc.,	15	30	50	75	100	150	250	375	500	1000
Price, per 10, $	.60	.70	.80	.90	1.05	1.25	1.50	1.75	2.00	2.50

No. 8982. **Bottles, Flint,** wide mouth with flat head, glass stopper.

	A.	B.	C.	D.	E.	F.	G.	H.	J.	K.
Capacity, cc.,	15	30	50	75	100	150	250	375	500	1000
Price, per 10, $	.60	.70	.80	.90	1.05	1.25	1.50	1.75	2.00	2.50

No. 8984. **Bottles, Blue,** wide mouth, with flat head, glass stopper.

	A.	B.	C.	D.	E.	F.
Capacity, cc.,	30	50	100	250	500	1000
Price, per 10, $	.70	.80	1.05	1.50	2.00	2.50

No. 8986. **Bottles, Amber,** wide mouth, with flat head, glass stopper.

	A.	B.	C.	D.	E.	F.
Capacity, cc.,	30	50	100	250	500	1000
Price, per 10, $	.70	.80	1.05	1.50	2.00	2.50

No. 8988. **Bottles.** Any pattern, from Nos. 8950 to 8986, with ground label for pencil notes.

Capacity, cc.,	15 to 250	375 to 8000
Price, extra, per 10,	$ .30	.50

No. 8990-8998.

No. 9004.

Bottles, with ground glass label. Chemical reagent.

The labels on these bottles are of raised letters blown in the glass, the surface of each letter being ground so as to render it distinct. The lettering is thus indestructible, and in no danger of being defaced when the bottle is washed or handled, and the inconvenience and unsightly appearance attending the use of paper labels is entirely avoided. In points of convenient shape, thin dropping lip and perfect stoppering, they are unequalled. The names and symbols have been carefully revised in accordance with modern practice. Any names not found in the following lists can be engraved on the bottles at small extra charge.

No. 8990. **Bottles, Reagents,** narrow mouth, 30 cc. capacity, height, 90 mm.
Per ten, - - - - - - - - - *net,* $ 1.00

No.			No.		
325.	Silver Nitrate (Amber)	$AgNO_3$	336.	Gold Chloride	$AuCl_3$
326.	Cobaltous Nitrate	$Co(NO_3)_2$	341.	Blank.	
327.	Platinic Chloride	$PtCl_4$			

No. 8992. **Bottles, Reagents,** narrow mouths, 125 cc. capacity, height, 130 mm.
Per ten, - - - - - - - - *net,* 1.45

No.			No.		
1.	Hydrogen Sulphide (Amber)	H_2S	20.	Barium Chloride	$BaCl_2$
2.	Hydrochloric Acid	HCl	21.	Calcium Chloride	$CaCl_2$
3.	Acetic Acid	$HC_2H_3O_2$	22.	Calcium Sulphate	$CaSO_4$
4.	Sulphuric Acid	H_2SO_4	23.	Calcium Hydroxide	$Ca(OH)_2$
5.	Nitric Acid	HNO_3	24.	Magnesium Sulphate	$MgSO_4$
6.	Potassium Ferrocyanide	$K_4Fe(CN)_6$	25.	Mercuric Chloride	$HgCl_2$
7.	Potassium Sulphocyanide	$KCNS$	26.	Silver Nitrate (Amber)	$AgNO_3$
8.	Potassium Carbonate	K_2CO_3	27.	Lead Acetate	$Pb(C_2H_3O_2)_2$
9.	Potassium Sulphate	K_2SO_4	28.	Ferrous Sulphate	$FeSO_4$
10.	Potassium Iodide	KI	29.	Ferric Chloride	Fe_2Cl_6
11.	Potassium Ferricyanide	$K_3Fe(CN)_6$	30.	Alcohol	C_2H_5OH
12.	Potassium Hydroxide	KOH	31.	Ammonium Sulphocyanide	NH_4CNS
13.	Potassium Dichromate	$K_2Cr_2O_7$	32.	Barium Hydroxide	$Ba(OH)_2$
14.	Sodium Phosphate	Na_2HPO_4	33.	Barium Carbonate	$BaCO_3$
15.	Ammonium Hydroxide	NH_4OH	35.	Ether	$(C_2H_5)_2O$
16.	Ammonium Sulphide (Amber)	$(NH_4)_2S$	36.	Cupric Sulphate,	$CuSO_4$
17.	Ammonium Chloride	NH_4Cl	38,	Blank.	
18.	Ammonium Carbonate	$(NH_4)_2CO_3$	59.	Sodium Carbonate	Na_2CO_3
19.	Ammonium Oxalate	$(NH_4)C_2O_4$	61.	Sodium Hydroxide	$NaOH$

No.			No.		
57.	Platinic Chloride	$PtCl_4$	97.	Ammonium Sulphydrate	NH_4HS
58.	Fehling's Solution.		100.	Mercuric Potassium Iodide.	
59.	Sodium Carbonate	Na_2CO_3	401.	Barium Nitrate	$Ba(NO_3)_2$
60.	Sodium Acetate	$NaC_2H_3O_2$	404.	Silver Sulphate	Ag_2SO_4
61.	Sodium Hydroxide	$NaOH$	406.	Bromine Water.	
77.	Ammonia	NH_3	407.	Chloroform	$CHCl_3$
81.	Stannous Chloride	$SnCl_2$	408.	Cochineal.	
82.	Ammonium Molybdate	$(NH_4)_2MoO_4$	409.	Corralline.	
83.	Carbon Disulphide	CS_2	410	Litmus.	
86.	Mercurous Nitrate	$Hg_2(NO_3)_2$	411.	Methyl-Orange.	
87.	Indigo Solution.		412.	Phenolphtalein.	
88.	Nessler's Solution.		413.	Turmeric.	
90.	Magnesia Mixture.		414.	Iodine Solution	$I+KI$
93.	Oxalic Acid	$H_2C_2O_4$	415.	Methyl Alcohol	CH_3OH
94.	Picric Acid	$C_6H_2OH(NO_2)_3$	416.	Sodium Cobaltic Nitrite.	
96.	Potassium Chromate	K_2CrO_4	417.	Sodium Hyposulphite	$Na_2S_2O_3$

No. 8994. **Bottles, Reagents,** narrow mouth, 250 cc. capacity, height, 160 mm.
Per ten, - - - - - - - - - - *net,* $1.85

No.		No.	
101.	Sulphuric Acid, Con. . . . . H_2SO_4	111.	Sodium Hydroxide . . . . . NaOH
102.	Sulphuric Acid, Dil. . . . . H_2SO_4	112.	Sodium Carbonate . . . . . Na_2CO_3
103.	Nitric Acid, Con. . . . . HNO_3	114.	Barium Chloride . . . . . $BaCl_2$
104.	Nitric Acid, Dil. . . . . HNO_3	116.	Blank.
105.	Hydrochloric Acid, Con. . . HCl	122.	Ammonium Sulphide (Amber) $(NH_4)_2S$
106.	Hydrochloric Acid, Dil. . . . HCl	129.	Sodium Phosphate . . . . . Na_2HPO_4
107.	Hydrogen Sulphide (Amber). H_2S	130.	Ammonium Oxalate . . . . $(NH_4)_2C_2O_4$
108.	Ammonium Hydroxide . . . NH_4OH	131.	Acetic Acid . . . . . $HC_2H_3O_2$
109.	Ammonium Chloride . . . . NH_4Cl	145.	Silver Nitrate (Amber) . . . $AgNO_3$
110.	Ammonium Carbonate . . . $(NH_4)_2CO_3$	150.	Potassium Hydroxide . . . KOH

No. 8996. **Bottles, Reagents,** narrow mouth, 500 cc. capacity, height, 190 mm.
Per ten, - - - - - - - - *net,* 2.70

No.		No.	
204.	Ammonium Hydroxide . . . NH_4OH	216.	Nitric Acid . . . . . HNO_3
211.	Blank.	217.	Hydrochloric Acid . . . . . HCl
215.	Sulphuric Acid . . . . . H_2SO_4		

No. 8998. **Bottles, Reagents,** narrow mouth, 1,000 cc. capacity, height, 235 mm.
Per ten, - - - - - - - - - *net,* 3.30

No.		No.	
501.	Sulphuric Acid, Con . . . . H_2SO_4	505.	Hydrochloric Acid, Con . . . HCl
502.	Sulphuric Acid, Dil. . . . . H_2SO_4	506.	Hydrochloric Acid, Dil . . . HCl
503.	Nitric Acid, Con . . . . . HNO_3	511.	Blank.
504.	Nitric Acid, Dil . . . . . HNO_3		

No. 9000. **Bottles, Reagents,** wide mouth, 30 cc. capacity, height, 80 mm. Per ten, - - - - - - - - - *net,* 1.10

No.		No.	
350.	Sodium Carbonate . . . . . Na_2CO_3	367.	Potassium Chlorate . . . . $KClO_3$
351.	Borax . . . . . $Na_2B_4O_7$	368.	Potassium Ferricyanide . . . $K_3Fe(CN)_6$
353.	Sodium Acetate . . . . . $NaC_2H_3O_2$	369.	Sodium Bitartrate . . . . . $NaHC_4H_4O_6$
354.	Potassium Nitrate . . . . . KNO_3	370.	Sodium Nitrate . . . . . $NaNO_3$
358.	Potassium Cyanide . . . . . KCN	371.	Starch.
361.	Am. Sod. Phosphate . . . . $NaNH_4HPO_4$	372.	Test Paper.
364.	Copper . . . . . Cu	373.	Zinc.
365.	Ferrous Sulphate . . . . . $FeSO_4$	374.	Ammonium Phosphate . . . $(NH_4)_2HPO_4$
366.	Ferrous Sulphide . . . . . FeS	375.	Blank.

No. 9002. **Bottles, Reagents,** wide mouth, 125 cc. capacity, height, 120 mm. Per ten, - - - - - - - - - *net,* $1.60

No.		No.	
301.	Sodium Carbonate . . . . . Na_2CO_3	305.	Ferrous Sulphate . . . . . $FeSO_4$
302.	Potassium Nitrate . . . . . KNO_3	307.	Blank.
303.	Potassium Cyanide . . . . . KCN	312.	Test Paper.
304.	Borax . . . . . $Na_2B_4O_7$		

No. 9004. **Bottle Caps,** loose form, as illustrated, to fit over stoppers of 125, 250, 500 and 1000 cc. bottles. Per ten, - - - *net,* .50

No. 9010.

No. 9012.

No. 9014.

No. 9016.

No. 9010. **Bottles, Flint,** with ground glass stopper and cap ground on. Of best German make.

	A.	B.	C.	D.	E.
Capacity, cc.,	30	50	100	250	500
Price, each,	$ .40	.50	.60	.80	1.00

No. 9012. **Bottles, Balsam,** with glass balsam dropper fitting loosely in the neck of the bottle and with glass cap ground on.
Capacity 45 cc. each, - - - - - - - $ .25

No. 9014. **Bottles, Balsam,** with triangular glass balsam dropper touching neck of bottle only in three points, thus preventing gumming, with glass cap ground on. Capacity 30 cc. each, - - - - - .45

No. 9016. **Bottles, Balsam,** with loose glass rod, balsam dropper, and glass cap. Bottle has very wide mouth.

	A.	B.
Capacity, cc.,	30	60
Price, each,	$ .25	.30

No. 9018.

No. 9020.

No. 9022.

No. 9024.

No. 9018. **Bottles, Cobalt or Acid,** with solid glass stopper reaching to bottom and with ground glass cap.

	A.	B.	C.	D.
Capacity, cc.,	10	25	50	100
Price, each,	$ .30	.35	.40	.50

No. 9020. **Bottles, Dropping,** with pipette stopper and rubber cap to control the amount of fluid ejected, capacity 15 cc. each, - - - .20

No. 9022. **Bottles, Dropping,** with pipette stopper and glass bulb containing perforation by which means the amount of fluid ejected can be controlled.
Capacity 15 cc. each, - - - - - - .25

No. 9024. **Bottles, Dropping,** with Barnes pipette, acting as a stopper for the bottle in which it is placed. A very convenient and inexpensive bottle,
Capacity, 30 cc. each, - - - - - - .10

No. 9026.

No. 9028.

No. 9036.

No. 9038.

No. 9040.

No. 9026. **Bottles, Dropping,** with straight finger pipette.

	A.	B.
Capacity, cc.,	30	50
Price, each,	$ .15	.20

No. 9028. **Bottles, Dropping,** with bulb shaped, finger pipette without rubber bulb.

	A.	B.	C.
Capacity, cc.,	15	30	50
Price, each,	$ .10	.15	.20

No. 9030. **Bottles, Dropping,** same as No. 9028 but with rubber bulb.

	A.	B.	C.
Capacity, cc.,	15	30	50
Price, each,	$ .12	.18	.24

No. 9032. **Bottles, Dropping,** same style as No. 9028, but made of amber glass; without rubber bulb.

	A.	B.
Capacity, cc.,	30	50
Price, each,	$ .15	.20

No. 9034. **Bottles, Dropping,** same as No. 9032 but with rubber bulb.

	A.	B.
Capacity, cc.,	30	50
Price, each,	$ .18	.24

No. 9036. **Bottles, Dropping,** with ground glass stopper, arranged with cavities to permit fluid to escape drop by drop. A half turn of the stopper closes the bottle hermetically. Capacity, 30 cc each, - - - $ .15

No. 9038. **Bottles, Dropping,** with hollow pipette and glass cap ground on.

	A.	B.
Capacity, cc.,	30	60
Price, each,	$ .40	.50

No. 9040. **Bottles, Reagent Stock.** This bottle is especially intended for keeping stock reagents which are to be distributed in the laboratory. A detachable glass funnel is ground into the neck and serves as a pour-out and may be removed for filling the bottle. Fitted with glass cap ground on. Capacity, 500 cc. each, - - - - - .60

No. 9050.

No. 9052.

No. 9054.

No. 9050. **Bottles, Washing,** with glass tubes and rubber stopper.

	A.	B.	C.	D.
Capacity, cc.,	150	250	500	1000
Price, each,	$ .35	.45	.60	.75

No. 9052. **Bottles, Washing,** with glass tubes and glass stopper, ground in.

	A.	B.	C.	D.
Capacity, cc.,	150	250	500	1000
Price, each,	$ .75	1.00	1.25	1.50

No. 9054. **Bottles, Washing,** with glass tubes fitted with stop-cocks and with ground glass stopper. For volatile fluids.

	A.	B.	C.	D.
Capacity, cc.,	150	250	500	1000
Price, each,	$2.25	2.50	2.75	3.00

No. 9056.

No. 9058.

No. 9062.

No. 9066.

No. 9056. **Bottles, Weighing,** round bottom, with glass stopper.

	A.	B.	C.
Height, mm.,	80	100	120
Diameter, mm.,	15	23	32
Price, each,	$ .25	.30	.35

No. 9058. **Bottles, Weighing,** flat bottom, with glass stopper.

	A.	B.	C.
Height, mm.,	80	100	120
Diameter, mm.,	15	23	32
Price, each,	$ .25	.30	.35

No. 9060. **Bottles, Weighing,** low form, round bottom, with glass stopper.

	A.	B.	C.	D.
Height, mm.,	40	50	60	80
Diameter, mm.,	25	30	35	45
Price, each,	.25	.30	.35	.40

No. 9062. **Bottles, Weighing,** low form, flat bottom, with glass stopper.

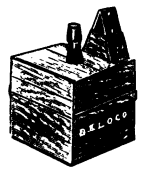
	A.	B.	C.	D.
Height, mm.,	40	50	60	80
Diameter, mm.,	25	30	35	45
Price, each.	$ .25	.30	.35	.40

No. 9064. **Bottles, Woulff,** with two necks.

	A.	B.	C.
Capacity, cc.,	250	500	1000
Price, each,	$ .40	.60	.80

No. 9066. **Bottles, Woulff,** with three necks without outlet at bottom.

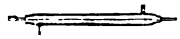
Capacity, cc.,	250	500	1000
Price, each,	$ .50	.70	.90



No. 9074.

No. 9100.

No. 9101.



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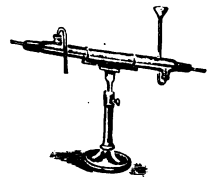


No. 9106.

No. 9074. **Carboys,** of glass in wooden case.

	A.	B.	C.
Capacity, litres,	40	60	80
Price, each,	$2.50	3.00	3.50

No. 9076. **Carboys,** of glass with ground glass stopper; in wooden case.

	A.	B.	C.
Capacity, litres,	40	60	80
Price, each,	$4.00	4.50	5.00

No. 9100. **Condensers, Allihnn's,** without support.

	A.	B.	C.
Length, mm.,	200	300	400
Price, each,	$1.00	1.25	1.50

No. 9101. **Condenser, Hopkins',** a new form, length 350 mm., each - - $1.50

(See Bulletin No. 53 of the University of Illinois Agricultural Experiment Station, page 147 and December "98" Number Journal Am. Chem. Society.)

No. 9102. **Condensers, Liebig's,** with loose inner tube ; without support.

	A.	B.	C.	D.	E.	F.
Length, mm.,	300	400	500	600	800	1000
Price, each,	$ .75	1.00	1.25	1.50	2.00	2.50

No. 9104. **Condensers, Liebig's,** with inner tube sealed into body ; without support.

	A.	B.	C.	D.	E.	F.
Length, mm.,	300	400	500	600	800	1000
Price, each,	$1.00	1.25	1.50	1.75	2.25	2.75

No. 9106. **Condensers, Liebig's,** with rubber connections ; without support.

	A.	B.	C.	D.	E.
Length, mm.,	300	400	500	600	800
Price, each,	$ .85	1.10	1.35	1.65	2.15

No. 9108. **Condensers, Supports,** for any of above condensers. Each, - $1.75

No. 9116.

No. 9120.

No. 9116. **Cylinders, Chloride** of calcium, Fresenius'.

	A.	B.	C.	D.	E.
Height, mm.,	210	260	315	350	420
Diameter, mm.,	25	40	45	50	55
Price, each,	$ .50	.60	.75	.90	1.20

No. 9120. **Demijohns,** of glass, with rattan cover.

	A.	B.	C.	D.	E.
Capacity, litres,	2	4	8	12	20
Price, each,	$ .50	.60	.80	1.00	1.25

No. 9130.

No. 9132.

No. 9134.

No. 9130. **Dessicators,** new patent, having an advantage of other shapes in that the whole interior space can be utilized. The air tight cover is ground on and cannot slip off, the dessicator can therefore be carried about more easily. The drying material is placed inside the space, formed by the widened mouth and the lower part which extends into it.

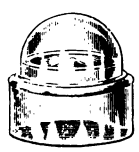
	A.	B.
Height of inside chamber, mm.,	80	150
Diameter of inside chamber, mm.,	80	150
Price, each,	$3.00	4.00

No. 9132. **Dessicators, Scheibler's,** cover with knob, ground on air tight.

	A.	B.	C.
Diameter, mm.,	100	120	150
Price, each,	$.75	1.00	1.25

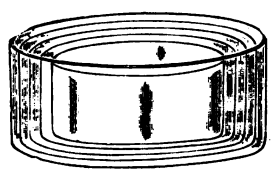
No. 9134. **Dessicators, Scheibler's,** air tight cover, with stop cock and hook ground into it.

	A.	B.	C.
Diameter, mm.,	100	120	150
Price, each,	$2.00	2.25	2.50



No. 9136.

No. 9138.



No. 9140.

No. 9136. **Dessicators, Fresenius',** with ground glass cover and brass ring.

	A.	B.	C.
Diameter, mm.,	80	100	120
Price, each,	$1.50	1.75	2.00

No. 9138. **Dialysers,** consisting of jar with open top bell jar suspended therein.

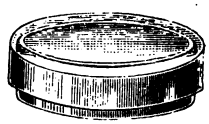
	A.	B.	C.	D.	E.
Capacity, litres,	2	4	6	8	12
Prices, each,	$1.25	1.50	2.50	3.50	5.00

No. 9140. **Dishes, Crystallization,** of clear white glass, with straight sides, flat bottom and polished edges.

	A.	B.	C.	D.	E.	F.	G.	H.
Height, mm.,	54	58	62	66	70	100	190	190
Diameter, mm.,	110	130	150	170	190	240	270	300
Price, each,	$.30	.35	.40	.45	.50	.85	1.25	1.75

No. 9142.

No. 9146.



No. 9150.

No. 9142. **Dishes, Evaporating,** of best Bohemian glass, round bottom and with pour-out.

	A.	B.	C.	D.	E.	F.	G.
Diameter, mm.,	50	60	80	100	120	140	160
Price, each,	$.12	.15	.20	.25	.30	.40	.50

No. 9144. **Dishes, Evaporating,** same as above, nested.

(a) 50 to 100 mm. inclusive, per nest, - - - - $ .70
(b) 50 to 120 mm. inclusive, per nest, - - - - 1.00
(c) 50 to 140 mm. inclusive, per nest, - - - - 1.35
(d) 50 to 170 mm. inclusive, per nest, - - - - 1.80

For porcelain evaporating dishes see "Porcelain," No. 10010.

No. 9146. **Dishes, Pasteur,** a double dish similar to the Petri dish, but thinner walled and shallower.

Diameter, 100 mm.; depth, 5 mm., each, - - - - .25

No. 9148. **Dishes, Pasteur,** with tops and bottoms polished, extra fine.

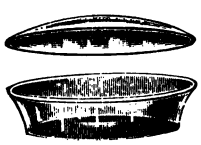
Diameter, 100 mm., each, - - - - - .50

No. 9150. **Dishes, Petri,** (or Esmarch's), a double dish, the upper fitting loosely over the lower; of best thin white German glass.

	A.	B.	C.	D.	E.
Diameter, mm.,	50	80	100	120	150
Price, each,	$ .15	.20	.25	.35	.50

No. 9152. **Dishes, Petri,** with tops and bottoms polished, extra fine.

Diameter, 100 mm., each, - - - - - - .50



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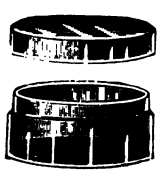


No. 9156.

No. 9158.

No. 9154. **Dishes, Preparation,** with convex cover, ground on air tight for permanent preservation or without sealing for ordinary purposes. Of clear white glass.

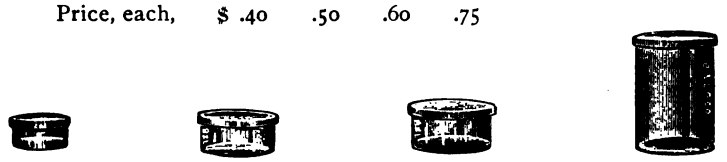
	A.	B.
Height, mm.,	40	44
Diameter, mm.,	80	100
Price, each,	$ .25	.30

No. 9156. **Dishes, Preparation,** of clear white glass, with loosely fitting cover. While not perfectly air tight, the deep rim of cover renders the dish sufficiently so for most purposes and the moderate cost commends it still further.

	A.	B.	C.	D.	E.
Diameter, mm.,	50	60	70	90	105
Price, each,	$ .20	.24	.28	.32	.40

No. 9158. **Dishes, Preparation,** of clear white glass, with broad flange at top and perfectly ground, air-tight cover, with knob.

	A.	B.	C.	D.
Height, mm.,	30	35	40	45
Diameter, mm.,	50	65	80	100
Price, each,	$ .40	.50	.60	.75



A. B. C. D.

No. 9160.

No. 9160. **Dishes, Stender,** of clear white glass, free from imperfections. These dishes are straight-walled and with top surface accurately ground into a groove in the cover, making an air-tight fit. We guarantee the covers to be perfectly fitted and the dishes superior to the ordinary Stender dishes.

	A.	B.	C.	D.
Height, mm.,	24	30	35	90
Diameter, mm.,	36	50	60	60
Price, each,	$ .12	.15	.18	.20

No. 9170. No. 9172. No. 9174.

No. 9170. **Filter Tubes,** for filtering acids through asbestos, glass wool or glass powder.

	A.	B.	C.
Length, mm.,	150	200	250
Price, each,	$ .15	.20	.25

No. 9172. **Filter Tubes,** Fresenius, with conical outlet. Each, - - - $ .25

No. 9174. **Filter Tubes,** Fresenius, with straight outlet. Each, - - - .25

No. 9176. No. 9178. No. 9180.

No. 9176. **Filter Flasks,** with side neck and funnel, ground in.

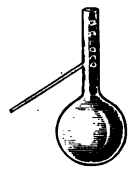
	A.	B.	C.
Capacity, cc.,	250	500	1000
Price, each,	$1.75	2.00	2.50

No. 9178. **Filter Flasks,** Erlenmeyer form, with side neck; of heavy glass.

	A.	B.	C.
Capacity, cc.,	250	500	1000
Price, each,	$ .35	.45	.60

No. 9180. **Filter Flasks,** round form, with side neck; of heavy glass.

	A.	B.	C.
Capacity, cc.,	250	500	1000
Price, each,	$ .35	.45	.60



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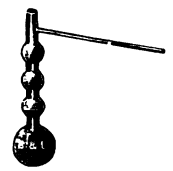

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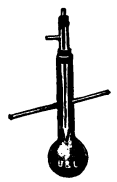


No. 9186.

No. 9182. **Flasks, Distilling,** for fractional distillation.

	A.	B.	C.	D.	E.	F.
Capacity, cc.,	30	60	100	250	500	1000
Price, each,	$ .20	.25	.30	.35	.45	.60

No. 9184. **Flasks, Distilling.** Ladenburg's, for fractional distillation.

	A.	B.	C.	D.
Capacity, cc.,	100	250	500	1000
Price, each,	$ .45	.65	.90	1.15

No. 9186. **Flasks, Distilling,** Kreuzler's, with inside condenser; for fractional distillation.

	A.	B.	C.
Capacity, cc.,	250	500	1000
Price, each,	$ .75	1.00	1.50

No. 9188.

No. 9192.

No. 9200.

No. 9188. **Flasks, Erlenmeyer** form, of best quality Bohemian glass.

	A.	B.	C.	D.	E.	F.	G.
Capacity, cc.,	50	100	250	500	1000	2000	4000
Price, each,	$ .10	.15	.20	.25	.40	.50	.90

No. 9190. **Flasks, Erlenmeyer** form, of JENA glass.

	A.	B.	C.	D.	E.	F.	G.
Capacity, cc.,	50	100	300	450	600	1100	2000
Price, each,	$ .18	.20	.30	.40	.50	.70	.90

No. 9192. **Flasks, Koch** form, flat bottom, of best quality Bohemian glass.

	A.	B.	C.	D.	E.	F.	G.	H.
Capacity, cc.,	50	100	250	500	1000	2000	4000	8000
Price, each,	$ .08	.10	.15	.20	.30	.45	.70	1.00

No. 9194. **Flasks, Koch** form, flat bottom, of JENA glass.

	A.	B.	C.	D.	E.	F.
Capacity, cc.,	50	100	300	500	1000	2000
Price, each,	$ .18	.20	.30	.45	.65	.90

No. 9196. **Flasks, Koch** form, round bottom, of best quality Bohemian glass.

	A.	B.	C.	D.	E.	F.	G.
Capacity, cc.,	50	100	250	500	1000	2000	4000
Price, each,	$ .08	.10	.15	.20	.30	.45	.70

No. 9198. **Flasks, Koch** form, round bottom, of JENA glass.

	A.	B.	C.	D.	E.	F.
Capacity, cc.,	50	100	300	500	1000	2000
Price, each,	$ .18	.20	.30	.45	.65	.90

No. 9200. **Flasks, Kjedahls,** with long narrow neck, of best quality infusible white glass, well annealed.

	A.	B.	C.	D.
Capacity, cc.,	100	250	500	1000
Price, each,	$ .20	.30	.40	.50

No. 9202. **Flasks.** Any of above styles from No. 9188 to 9200 with ground label for pencil notes, extra each . . . . . $ .05

No. 9212.

No. 9218.

No. 9222.

No. 9210. **Funnels, plain,** of heavy, clear white glass.

	A.	B.	C.	D.	E.	F.
Diameter, mm.,	80	100	120	150	170	200
Price, each,	$ .10	.12	.15	.20	.25	.35

No. 9212. **Funnels, plain,** of clear, white glass, with stem ground to a point. Angle of sides exactly 60°.

	A.	B.	C.	D.	E.	F.	G.
Diameter, mm.,	50	80	100	120	150	170	200
Capacity, cc.,	30	60	125	250	500	1000	2000
Price, each,	$ .10	.15	.20	.25	.30	.40	.50

No. 9214. **Funnels, plain,** same quality as No. 9212, but with ground top.

	A.	B.	C.	D.	E.	F.	G.
Diameter, mm.,	50	80	100	120	150	170	200
Capacity, cc.,	30	60	125	250	500	1000	2000
Price, each,	$ .15	.20	.25	.30	.40	.50	.60

No. 9216. **Funnels, ribbed,** of heavy, clear white glass; for rapid filtering.

	A.	B.	C.	D.	E.	F.	G.
Diameter, mm.,	50	80	100	120	150	170	200
Price, each,	$ .08	.10	.15	.20	.25	.30	.40

No. 9218. **Funnels, ribbed,** of clear. white glass, with stem ground to a point; very desirable for rapid filtering. Angle of sides exactly 60°.

	A.	B.	C.	D.	E.	F.	G.
Diameter, mm.,	50	80	100	120	150	170	200
Capacity, cc.,	30	60	125	250	500	1000	2000
Price, each,	$ .10	.15	.20	.25	.30	.40	.50

No. 9220. **Funnels, ribbed,** same quality as No. 9218, but with ground top.

	A.	B.	C.	D.	E.	F.	G.
Diameter, mm.,	50	80	100	120	150	170	200
Capacity, cc.,	30	60	125	250	500	1000	2000
Price, each,	$ .15	.20	.25	.30	.40	.50	.60

No. 9222. **Funnels, fluted,** a new funnel of design as illustrated, the most rapid filtering funnel in use.

	A.	B.	C.	D.
Diameter, mm.,	70	100	160	200
Capacity, cc.,	60	125	500	2000
Price, each,	$ .35	.50	.75	1.25

No. 9224.

No. 9226.

No. 9228.

No. 9224. **Funnels, Separatory,** of clear, white glass, with stop cock, angle 60°.

	A.	B.	C.
Diameter, mm.,	100	180	240
Price, each,	$1.50	2.00	3.00

No. 9226. **Funnels, Separatory,** pear shaped, with glass stopper ground in and with Geissler stop-cock.

	A.	B.	C.
Capacity, cc.,	125	250	500
Price, each,	$1.00	1.25	1.50

No. 9228. **Funnels, Victor Meyer,** to suspend over dishes.

	A.	B.
Diameter, mm.,	160	200
Price, each,	$1.00	1.25

For porcelain funnels, see "Porcelain."

No. 9240.

No. 9244.

No. 9246.

No. 9248.

No. 9240. **Funnel Tubes,** straight, with conical top.

	A.	B.	C.
Length, mm.,	200	300	400
Price, each,	$ .10	.12	.15

No. 9242. **Funnel Tubes,** straight, with thistle-shaped top.

	A.	B.	C.
Length, mm.,	200	300	400
Price, each,	$ .08	.10	.12

No. 9244. **Funnel Tubes,** with loop in stem, thistle shaped top

	A.	B.	C.
Length, mm.,	200	300	400
Price, each,	$ .10	.15	.20

No. 9246. **Funnel Tubes,** with loop in stem, conical top.

	A.	B.	C.
Length, mm.,	200	300	400
Price, each,	$ .10	.15	.20

No. 9248. **Funnel Tube,** with loop in stem, thistle shaped top, one bulb, length 300 mm., each, - - - - - - - - $ .20

No. 9250.

No. 9252.

No. 9254.

No. 9256.

No. 9258.

No. 9250. **Funnel Tube,** with loop in stem, thistle shaped top, two bulbs, length 300 mm., each, - - - - - - - - - $ .25

No. 9252. **Funnel Tube,** with loop in stem, thistle shaped top, two bulbs, arranged near top, length 300 mm., each, - - - - .30

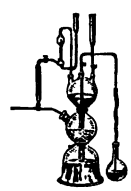
No. 9254. **Funnel Tube,** with loop in stem, thistle shaped top, four bulbs, length 300 mm., each, - - - - - - - - - .35

No. 9256. **Funnel Tube,** with loop in stem, conical top, one bulb, length 300 mm., each, - - - - - - - - - - .20

No. 9258. **Funnel Tubes,** Vogel's.

	A.	B.	C.
Length, mm.,	200	300	400
Price, each,	$ .30	.40	.50

No. 9270.


No. 9272.

No. 9274.

No. 9270. **Gas Generators, Kipp's,** with safety tube and glass stop-cock.

	A.	B.	C.	D.
Capacity of each receiver, cc.,	250	500	1000	2000
Price, each,	$3.50	4.00	5.00	7.00

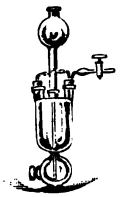
No. 9272. **Gas Generator, Muencke's,** each, - - - - - $12.00

No. 9274. **Gas Generators, Norblad's,** for hydrogen sulphite and carbonic acid, without support.

	A.	B.
Capacity, cc.,	1000	2000
Price, each,	$6.00	10.00

No. 9276. **Gas Generator Support,** for Norblad's generator, each, - - $2.00

No. 9278.



No. 9280.

No. 9290.

No. 9292..

No. 9278. **Gas Generator, Steenbuch's,** for hydrogen sulphite, hydrogen and carbon dioxide. Each, - - - - - - - $5.00

No. 9280. **Gas Generator, Witzel's,** an improved form of generator. Each, - 5.00

No. 9290. **Gas Wash Flasks, Allihn's.**

	A.	B.	C.
Capacity, cc.,	250	500	1000
Price, each,	$1.50	1.75	2.00

No. 9292. **Gas Wash Flasks, Drechsel's.**

	A.	B.	C.	D.	E.
Capacity, cc.,	100	150	200	250	500
Price, each,	$ .60	.75	.85	1.00	1.25

No. 9300.

No. 9300. **Glass Boxes,** with cover, 100 x 40 x 40 mm. Each, - - - $1.25

No. 9302. **Glass Plates, plain** or matted on one side, square, edges not ground.

	A	B.	C.	D.	E.	F.	G.	H.	J.	K.	L.
Size, mm.,	75	100	125	150	175	200	225	250	300	375	500
Price, each, $	.05	.06	.08	.10	.15	.20	.25	.30	.35	.40	.50

No. 9304. **Glass Plates, plain,** heavy plate glass, square, edges ground.

	A.	B.	C.	D.	E.	F.	G.	H.	J.	K.	L.
Size, mm.,	75	100	125	150	175	200	225	250	300	375	500
Price, each, $	.15	.20	.25	.30	.40	.50	.60	.75	1.00	1.50	2.00

No. 9306. **Glass Plates, plain** or matted on one side, circular, edges not ground.

	A.	B.	C.	D	E.	F.	G.	H.	J.	K.
Diameter, mm.,	50	75	100	125	150	175	200	225	250	300
Price, each, $	.05	.06	.08.	.10	.15	.20	.25	.30	.35	.40

No. 9308. **Glass Plates, plain** or matted on one side, circular, edges ground.

	A.	B.	C.	D.	E.	F.	G.	H.	J.	K.
Diameter, mm.,	50	75	100	125	150	175	200	225	250	300
Price, each, $	.08	.10	.12	.15	.20	.30	.35	.45	.50	.60

No. 9310. **Glass Plates, Blue,** square, edges not ground.

	A.	B.	C.	D.	E.
Size, mm.,	50	75	100	125	150
Price, each, $	.06	.08	.10	.15	.20

No. 9312. **Glass Plates, Blue,** square, edges ground.

	A.	B.	C.	D.	E.
Size, mm.,	50	75	100	125	150
Price, each, $	.12	.15	.20	.30	.40

No. 9320. **Glass Tubing,** of soft glass, best *German* quality, especially for melting and blowing in the laboratory. Tubing comes regularly in lengths of about 1½ meters. Sizes from 2 to 50 mm., per 500 grams, - - $ .40

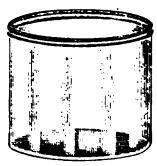
No. 9322. **Glass Tubing,** of hard *Bohemian* glass, known as combustion tubing. Per 500 grams, - - - - - - - - - .75

No. 9324. **Glass Rod,** of soft glass, easily melted, for laboratory use. Diameters from 2 to 12 mm., per 500 grams, - - - - - .40

No. 9326. **Glass Stirrers,** of glass rod, all sizes, per 500 grams, - - - .50

No. 9328. **Glass Wool,** for filtering acids, etc.

	A. Fine.	B. Coarse.
Price, per 100 grams,	$2.00	1.50.



No. 9340.

No. 9342.

No. 9344.

No. 9340. **Jars, Aquarium,** of heavy white glass, straight sides and heavy flange.

	A.	B.	C.	D.	E.	F.
Capacity, litres,	2	4	6	8	16	32
Price, each,	$ .40	.60	.80	1.00	2.00	3.00

No. 9342. **Jars, Battery,** of heavy white glass, straight sides.

	A.	B.	C.	D.	E.	F.
Diameter, mm.,	100	105	125	150	200	225
Height, mm.,	125	150	275	225	300	375
Price, each,	$ .25	.30	.40	.40	.80	1.25

No. 9344. **Jars, Cylindrical,** of clear white glass, flat bottoms and plain round rim. The cover fits loosely over the top of jar. A very useful jar for general purposes.

	A.	B.	C.
Height, mm.,	130	180	180
Diameter, mm.,	.65	.80	100
Price, each,	$ .30	.45	.60

No. 9346.

No. 9348.

No. 9346. **Jars, Cylindrical,** of fine white glass, without foot, with shoulder and loose drop on cover, and cut and polished knob. A very fine jar.

	A.	B.	C.	D.	E.
Height, mm.,	100	120	150	210	260
Diameter, mm.,	100	120	150	210	260
Price, each,	$1.00	1.25	1.75	2.50	3.25

No. 9348. **Jars, Cylindrical,** of fine white glass, with foot, without shoulder, with loose drop on cover and smooth knob.

	A.	B.	C.	D.	E.
Height, mm.,	100	120	150	210	260
Diameter, mm.,	100	120	150	210	260
Price, each,	$1.00	1.25	1.75	2.50	3.25

No. 9350.

No. 9352.

No. 9354.

No. 9350. **Jars, preparation,** of clear white glass, with neck and foot and ground glass stopper.

	A.	B.	C.	D.	E.	F.
Height, mm.,	80	100	120	150	180	200
Diameter, mm.,	30	30	40	50	60	80
Price, each,	$ .25	.30	.35	.45	.55	.75

No. 9352. **Jars, preservation,** of clear white glass, with glass cover fitting air tight with rubber ring and held in place with metal cap which screws down upon the cover. A good museum jar.

	A.	B.	C.	D.
Capacity, cc.,	250	500	1000	2000
Price, each,	$ .10	.15	.20	.25

No. 9354. **Jars, preservation,** of clear white glass and self acting clamp, body of jar same size as mouth. The cover is of glass, fitting air tight with rubber ring and clamped with spring clamp as shown in illustration.

	A.	B.	C.	D.	E.
Capacity, cc.,	30	200	250	400	600
Price, each,	$ .10	.10	.12	.15	.20

No. 9356.

No. 9358.

No. 9360.

No. 9356. **Jars, Screw capped,** of clear white glass, small size.

	A.	B.	C.	D.
Capacity, cc.,	30	60	120	240
Price, per ten,	$ .50	.75	1.00	1.50

No. 9358. **Jars, Specimen,** of clear white glass, free from imperfections, with foot and lip, and carefully ground air tight cover, stopper form, with knob

	A.	B.	C.	D.	E.	F.
Height, mm.,	100	120	120	130	150	180
Diameter, mm.,	75	30	50	75	100	120
Price, each,	$ .50	.40	.45	.60	.90	1.20

No. 9360. **Jars, Specimen,** of fine white glass, with ground bottom and ground flange

	A.	B.	C.	D.	E.	F.	G.	H.	J.
Height, mm.,	80	100	120	120	130	150	180	230	300
Diameter, mm.,	25	40	30	50	75	100	120	180	250
Price, each,	$ .15	.20	.25	.30	.50	.75	1.00	2.00	3.00

No. 9362.

No. 9364.

No. 9370.

No. 9376.

No. 9362. **Jars, Specimen,** of fine white glass, with carefully ground airtight cover.

	A.	B.	C.	D.	E.
Height, mm.,	80	130	150	180	250
Diameter, mm.,	140	100	200	180	220
Price, each,	$1.50	1.00	2.00	2.75	4.00

No. 9364. **Jars, Specimen,** inverted form, of clear white glass, with carefully ground airtight stopper which acts as pedestal on which jar rests. A very ornamental museum jar.

	A.	B.	C.	D.
Height, mm.,	130	190	220	320
Diameter, mm.,	50	80	100	120
Price, each,	$ .50	1.00	1.50	2.00

No. 9370. **Mortars,** of clear white glass, very heavy and strong.

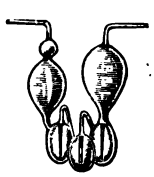
	A.	B.	C.	D.	E.	F.
Diameter, mm.,	60	70	100	110	130	150
Capacity, cc.,	30	60	125	250	500	1000
Price, each,	$ .15	.20	.30	.40	.50	.75

For other mortars see "Mortars" "Porcelain" and "Stoneware."

No. 9376. **Percolators,** conical shape.

	A.	B.	C.	D.
Capacity, cc.,	500	1000	2000	4000
Price, each,	$ .20	.30	.50	.75

No. 9380. **Pipette,** with rubber bulb, 2 cc., straight, per ten, - - $ .30
No. 9382. **Pipette,** with rubber bulb, 2 cc., curved, per ten, - - .35
No. 9384. **Pipette,** with large mouth and extra large bulb, straight, per ten, .50
No. 9386. **Pipette,** with funnel top for finger ; 90 mm. long, straight, per ten, .35
No. 9388. **Pipette,** with funnel top for finger ; 90 mm. long, curved, per ten, .40
No. 9390. **Pipette,** without bulb ; 200 mm. long, straight, per ten, - - .50
No. 9392. **Pipette,** with 20 cc. rubber bulb ; 200 mm. long, straight, per ten, 1.50
No. 9394. **Pipette,** without bulb ; 300 mm. long, straight, per ten, - - .75
No. 9396. **Pipette,** with 20 cc. rubber bulb ; 300 mm. long, straight, per ten, 1.75

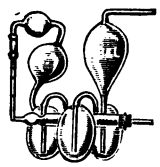


No. 9400.

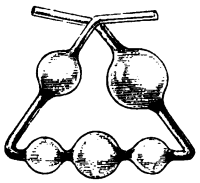
No. 9402.

No. 9404.

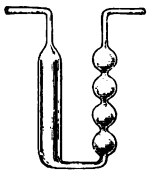
No. 9400. **Potash Apparatus,** Mohr's, each, - - - - - $ .75
No. 9402. **Potash Apparatus,** Mohr's, each, - - - - - 1.00
No. 9404. **Potash Apparatus,** Geissler's, with chloride of calcium tube, each, 1.20



No. 9406.

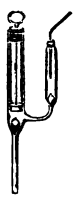


No. 9408.



No. 9410.

No. 9406. **Potash Apparatus,** Geissler's, with chloride of calcium tube, each, $1.25
No. 9408. **Potash Apparatus,** Liebig's, each, - - - - - .50
No. 9410. **Potash Apparatus,** Mitcherlich's, each, - - - - - .50



No. 9416.

No. 9418.

No. 9416. **Pump, Force,** as illustrated, each, - - - - - 1.50
No. 9418. **Pump, Suction,** as illustrated, each, - - - - - 1.50

No. 9420.

No. 9422.

No. 9428.

No. 9420. **Receivers,** for retorts, plain.

	A.	B.	C.	D.	E.	F.
Capacity, cc.,	50	100	250	500	1000	2000
Price, each,	$ .10	.15	.20	.25	.35	.50

No. 9422. **Receivers,** for retorts, with side opening for stopper.

	A.	B.	C.	D.	E.	F.
Capacity, cc.,	50	100	250	500	1000	2000
Price, each,	$ .20	.30	.40	.50	.75	1.00

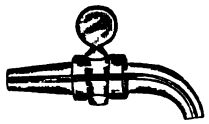
No. 9424. **Retorts,** without stopper.

	A.	B.	C.	D.	E.	F.
Capacity, cc.,	75	150	250	500	1000	2000
Price, each,	$ .15	.20	.25	.30	.40	.50

No. 9428. **Retorts,** with ground glass stopper.

	A.	B.	C.	D.	E.	F.
Capacity, cc.,	75	150	250	500	1000	2000
Price, each,	$ .20	.25	.30	.50	.60	.80

No. 9434.

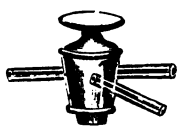


No. 9436.

No. 9438.

No. 9440.

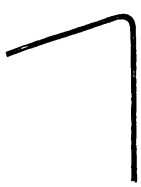
No. 9434. **Stop-cock,** straight, 80 mm. long, each, - - - - $1.00
No. 9436. **Stop-cock,** curved, 80 mm. long, each, - - - - 1.00
No. 9438. **Stop-cock,** straight, 4 mm. diameter, for connecting rubber tubing, etc., each, - - - - - - - - 1.50
No. 9440. **Stop-cock,** curved, 4 mm. diameter, for connecting rubber tubing, etc., each, - - - - - - - - 1.50



No. 9442.

No. 9444.

No. 9442. **Stop-cock,** Geissler's three ways, 4 mm. diameter, each, - - 1.75
No. 9444. **Stop-cock,** Geissler's four ways, 4 mm. diameter, each, - - 2.00



No. 9450.

No. 9454.

No. 9456.

No. 9450. **Syphons,** plain.

	A.	B.	C.	D.
Length, mm.,	250	500	750	1000
Price, each,	$ .15	.25	.40	.60

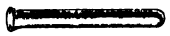
No. 9452. **Syphons,** with suction tube.

	A.	B.	C.	D.
Length, mm.,	250	500	750	1000
Price, each,	$ .25	.40	.60	1.00

No. 9454. **Syphons,** with suction tube and glass stop cock.

	A.	B.	C.	D.
Length, mm.,	250	500	750	1000
Price, each,	$1.00	1.25	1.50	2.00

No. 9456. **Syphons,** for taking samples from barrels, so called thief glasses, length 75 ctm., with metal handles, each, - - - - 1.20



No. 9460.

No. 9464.

No. 9460. **Test tubes,** with lip, thin wall, clearest Bohemian glass.

	A.	B.	C.	D.	E.	F.	G.	H.	J.	K.
Length, mm.,	75	100	120	120	120	150	150	150	180	200
Diameter, mm.,	11	12	13	15	18	15	20	25	18	20
Price, per ten,	$ .10	.12	.15	.15	.18	.20	.25	.30	.35	.40

No. 9462. **Test tubes,** without lip, heavy wall, with round bottom, so-called Board of Health form.

	A.	B.	C.	D.	E.	F.	G.	H.
Length, mm.,	100	100	120	120	120	150	150	150
Diameter, mm.,	12	15	13	15	18	15	18	20
Price, per ten,	$ .18	.20	.22	.25	.30	.30	.35	.40

No. 9464. **Test tubes,** without lip, heavy wall, with flat bottom, otherwise same as Board of Health form.

	A.	B.	C.	D.
Length, mm.,	100	100	120	150
Diameter, mm.,	12	15	13	15
Price, per ten,	$ .18	.20	.22	.30

No. 9466.

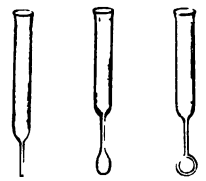
No. 9468.

No. 9466. **Test tubes,** with side neck.

	A.	B.	C.	D.
Length, mm.,	120	150	180	200
Price, per ten,	$ .50	.60	.75	1.00

No. 9468. **Test tubes,** with base and lip.

	A.	B.	C.
Height, mm.,	100	130	150
Diameter, mm.,	16	20	25
Price, per ten,	$ .50	.60	.75



A. B. C.

No. 9470.

No. 9472. No. 9476. No. 9478.

No. 9470. **Tubes, Arsenic** reduction.

Style,	A.	B.	C.
Price, per ten,	$ .35	.35	.35

No. 9472. **Tubes, Chloride** of calcium, with one bulb; straight.

	A.	B.	C.
Length, mm.,	100	150	200
Price, each,	$ .08	.10	.12

No. 9474. **Tubes, Chloride** of calcium, with one bulb; bent.

	A.	B.	C.
Length, mm.,	100	150	200
Price, each,	$ .08	.10	.12

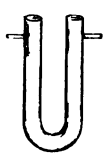
No. 9476. **Tubes, Chloride** of calcium, with two bulbs; straight.

	A.	B.	C.
Length, mm.,	100	150	200
Price, each,	$ .10	.12	.15

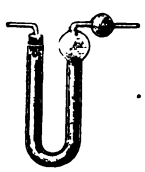
No. 9478. **Tubes, Chloride** of calcium, with two bulbs; bent.

	A.	B.	C.
Length, mm.,	100	150	200
Price, each,	$ .10	.12	.15

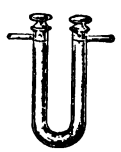
No. 9480.



No. 9481.



No. 9482.



No. 9484.

No. 9490.

No. 9480. **Tubes, Chloride** of calcium, with two bulbs and inner tube to collect moisture.

	A.	B.	C.
Length, mm.,	100	150	200
Price, each,	$ .15	.20	.25

No. 9481. **Tubes, Chloride** of Calcium, U form with two side tubes.

	A.	B.	C.	D.	E.
Length, mm.,	100	120	150	180	200
Price, each,	$ .15	.20	.25	.30	.35

No. 9482. **Tubes, Chloride** of calcium, Marchand's.

	A.	B.	C.
Length, mm.,	100	120	150
Price, each,	$ .25	.30	.35

No. 9484. **Tubes, Chloride** of calcium, Schwartz's, with perforated stoppers.

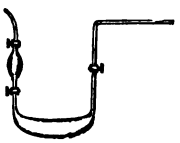
	A.	B.	C.
Length, mm.,	100	120	150
Price, each,	$ .75	1.00	1.25

No. 9486. **Tubes, Combustion,** of infusible Bohemian glass per 470 grams, (one pound) - - - - - - - - - $ .75

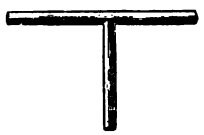
No. 9488. **Tubes, Combustion,** of Jena glass, in one and two metres lengths per 470 grams, (one pound) - - - - - - - - .75

No. 9490. **Tubes, Combustion,** of hard Bohemian glass drawn to a point.

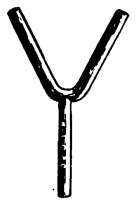
	A.	B.	C.	D.
Length, mm.,	300	400	600	800
Price, each,	$ .20	.30	.40	.50



No. 9492.



No. 9494.



No. 9496.

No. 9498.

No. 9492. **Tubes, Condensation,** for sulphuric acid, with three Geissler stop-cocks, each, - - - - - - - - $3.00

No. 9494. **Tubes, Connecting,** three way. T shape.

	A.	B.	C.	D.	E.
Length, mm.,	25	40	50	65	90
Diameter, mm.,	6	7	9	11	12
Price, each,	$ .10	.12	.14	.16	.18

No. 9496. **Tubes, Connecting,** three way. Y shape.

	A.	B.	C.	D.	E.
Length, mm.,	25	40	50	65	90
Diameter, mm.,	6	7	9	11	12
Price, each,	$ .10	.12	.14	.16	.18

No. 9498. **Tubes, Connecting,** three way. U shape.

	A.	B.	C.	D.	E.
Length, mm.,	25	40	50	65	90
Diameter, mm.,	6	7	9	11	12
Price, each,	$ .10	.12	.14	.16	.18

No. 9500.

No. 9502.

No. 9504.

No. 9500. **Tubes, Drying,** Bank's.

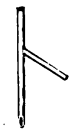
	A.	B.	C.
Length, mm.,	100	140	180
Diameter, mm.,	13	16	18
Price, each,	$ .20	.30	.40

No. 9502. **Tube, Drying,** Hart's.

	A.	B.	C.	D.
Length, mm.,	120	140	180	220
Diameter, mm.,	13	16	18	20
Price, each,	$ .30	.40	.50	.60

No. 9504. **Tubes, Drying,** Marchand's.

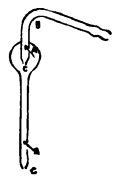
	A.	B.	C.	D.
Length, mm.,	150	200	250	300
Diameter, mm.,	15	20	22	25
Price, each,	$ .20	.30	.40	.50



No. 9506.

No. 9508.

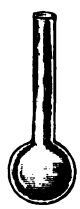
No. 9514.



No. 9516.

No. 9506. **Tube,** Fractional Distilling, each, - - - - - $ .20
No. 9508. **Tube,** Fractional Distilling, with one bulb, each, - - - .25
No. 9510. **Tube,** Fractional Distilling, with two bulbs, each, - - - .30
No. 9512. **Tube,** Fractional Distilling, Henninger and Le Bell, with two bulbs, each, 1.00
No. 9514. **Tube,** Fractional Distilling, Henninger and Le Bell, with four bulbs, each, 1.50
No. 9516. **Tube,** Fractional Distilling, Hopkins, a new form, each, - - 1.00
(See Journal of American Chem. Society, Vol. XVIII, No. 3, March, "'96.") - - - - - - - -

No. 9518.



No. 9530.

No. 9518. **Tubes, Filter,** for Gooch crucibles, so-called carbon filter tubes.

	A.	B.	C.	D.
Diameter, mm.,	18	25	28	32
Price, each,	$ .20	.22	.25	.30

No. 9520. **Tubes, Ignition,** of very heavy glass.

	A.	B.	C.	D.
Length, mm.,	100	125	150	200
Price, per ten,	$ .40	.50	.60	.75

No. 9522. **Tubes, Ignition,** of hard Bohemian glass, straight, with round bottom.

	A.	B.	C.
Length, mm.,	125	150	200
Price, each,	$ .10	.15	.20

No. 9524. **Tubes, Ignition,** of hard Bohemian glass, with bulb at one end.

	A.	B.	C.	D.
Length, mm.,	100	125	150	200
Price, each,	$ .15	.18	.20	.30

No. 9526. **Tubes, Nessler's,** plain, without graduations.

	A.	B.
Capacity, cc.,	50	100
Price, each,	$ .15	.20

No. 9530. **Tumblers,** of plain white glass, good quality; capacity, cc., 160.
Per ten, - - - - - - - - - - $ .40

No. 9538.

No. 9542.

No. 9532. **Vials, Tube Form,** clear white glass, with flat bottom, without neck, with cork.

	A.	B.	C.	D.	E.	F.	G.	H.	J.	K.	L.
Height, mm.	25	35	40	50	60	70	80	50	60	70	80
Diameter, mm.,	8	8	10	12	13	15	16	25	25	25	25
Price, per ten, $	.10	.15	.18	.20	.25	.30	.35	.40	.50	.60	.75

No. 9534. **Vials, Tube Form,** amber glass, flat bottoms, without neck, with cork.

	A.	B.	C.	D.	E.	F.	G.	H.
Height, mm.	28	35	45	55	65	65	95	77
Diameter, mm.,	8	8	10	12	14	18	18	26
Price, per ten, $	.10	.15	.20	.25	.30	.35	.40	.60

No. 9536. **Vials, Homœopathic,** short form, flat bottom, with neck and cork.

	A.	B.	C.	D.	E.	F.
Capacity, drachms,	1	2	3	4	6	8
Price, per ten, $	.10	.15	.20	.25	.30	.40

No. 9538. **Vials, Glass-stoppered,** for preservation of small and valuable specimens, etc.

	A.	B.	C.	D.	E.
Capacity, grams,	2	3	4	6	8
Price, per ten, $	.40	.50	.60	.75	1.00

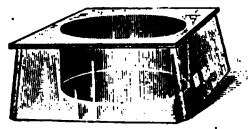
No. 9540. **Vials, Screw Cap Homœopathic,** short form, flat bottom and metal cap, cork lined in place of cork stopper.

	A.	B.	C.	D.	E.	F.
Capacity, drachms,	1	2	3	4	6	8
Price, per ten, $	.15	.18	.20	.25	.35	.45

No. 9542. **Vials, Preparation,** glass stoppered, flat bottom and straight sides.

	A.	B.	C.	D.
Height, mm.,	50	65	80	80
Diameter, mm.,	16	18	20	25
Price, each, $	.15	.20	.22	.25

No. 9554.



No. 9558.

No. 9550. **Watch Glasses,** with concave centers and small facet on bottom. Per ten, - - - - - - - - - - $ .50

No. 9552. **Watch Glasses,** thin, concave, German form.

	A.	B.	C.	D.	E.	F.	G.
Diameter, mm.,	40	50	70	100	120	140	160
Price, per ten,	$ .50	.75	1.00	1.50	1.75	2.25	3.00

No. 9554. **Watch Glasses,** Syracuse Solid, improved form, plain, outside diameter 65 mm., inside diameter 50 mm., depth 10 mm. Per ten, - - .50

No. 9556. **Watch Glasses,** Syracuse Solid, improved form, with beveled surface ground, forming a writing surface upon which particulars about the contents may be written and erased easily. Outside diameter 65 mm., inside diameter 50 mm., depth 10 mm. Per ten, - - - - .75

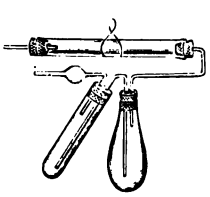
The improved Syracuse Watch Glass is of the most convenient form to be handled with least danger of dropping and will stand more hard usage without breaking or chipping than any other form. The bottom surfaces are parallel, making it possible to examine objects in the glass without distortion, at the same time the slight curvature around the inside of the bottom permits the easy use of the section lifter The flange around the bottom permits the glasses being securely stacked.

No. 9558. **Watch Glasses,** Square form, with cover, one vertical surface ground for writing upon. Per ten, - - - - - - - - .60

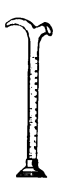
No. 9560. **Watch Glasses,** Square form, with cover, upper and lower surfaces cut and polished, one vertical surface ground for writing upon. Per ten, 1.25

No. 9562. **Watch Glasses,** Square form, of black glass, with cover. Each, - .35

Glassware Graduated and Tested for Specific Purposes.



No. 9598.

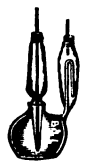


No. 9600.

No. 9602.

No. 9604.

No. 9598. **Alkalimeter, Berzelius'.** Each, - - - - - - $ .60
No. 9600. **Alkalimeter, Bink's,** on wooden base, 30 cc., graduated into $\frac{1}{10}$. Each, 1.00
No. 9602. **Alkalimeter, Fresenius'.** Each, - - - - - - 2.50
No. 9604. **Alkalimeter, Gay-Lussac's,** on wooden base, 50 cc., graduated into $\frac{1}{10}$. Each, - - - - - - - - - - 1.25



No. 9606.

No. 9608.

No. 9610.

No. 9606. **Alkalimeter, Geissler and Rose's.** Each, - - - - $1.50
No. 9608. **Alkalimeter, Geissler's.** Each, - - - - - - 2.00
No. 9610. **Alkalimeter, Geissler's and Erdman's.** Each, - - - 1.50

No. 9612.

No. 9614.

No. 9616.

No. 9612. **Alkalimeter, Kipp's.** Each, - - - - - - 1.50
No. 9614. **Alkalimeter, Rohrbecks.** Each, - - - - - - 1.50
No. 9616. **Alkalimeter, Ure's,** with glass stopper, 100 grams, graduated into 100 equal parts, for estimating the percentage of potash and soda. Each, 1.00

No. 9620.

No. 9622.

No. 9624.

No. 9620. **Bottles, Aspirating,** of heavy white glass, with foot, neck ground inside, without lip, accurately graduated.

	A.	B.	C.
Capacity, cc.,	500	1000	2000
Price, each,	$1.00	1.50	2.00

No. 9622. **Bottles, Aspirating,** of heavy white glass, with outlet near bottom.

	A.	B.	C.	D.	E.
Capacity, cc.,	250	500	1000	2000	4000
Price, each,	$ .40	.45	.60	.80	1.20

No. 9624. **Bottles, Aspirating,** with glass stopper and glass stop-cock ground into outlet.

	A.	B.	C.	D.	E.
Capacity, cc.,	250	500	1000	2000	4000
Price, each,	$1.50	1.75	2.00	2.50	4.00

No. 9626.

No. 9628.

No. 9630.

No. 9632.

No. 9634.

No. 9636.

No. 9626. **Bottles, Mixing,** with ground stopper accurately graduated.

	A.	B.	C.	D.
Capacity, cc.,	250	500	1000	2000
Price, each,	$1.00	1.50	2.25	3.00

No. 9628. **Bottles, Specific Gravity,** Gay-Lussac's, with perforated stopper.

	A.	B.	C.	D.
Capacity, cc.,	10	25	50	100
Price, each,	$ .20	.25	.35	.50

No. 9630. **Bottles, Specific Gravity,** Gay-Lussac's, accurately adjusted.

	A.	B.	C.	D.
Capacity, cc.,	10	25	50	100
Price, each,	$.60	.75	1.00	1.25

No. 9632. **Bottles, Specific Gravity,** Regnault's, for liquids.

	A.	B.	C.
Capacity, cc.,	25	50	100
Price, each,	$ .50	.60	.75

No. 9634. **Bottles, Specific Gravity,** Regnault's, for solids.

	A.	B.
Capacity, grams,	25	50
Price, each,	$ .50	.75

No. 9636. **Bottles, Specific Gravity,** with thermometer, divided into $\frac{1}{5}°$, ground into neck; with side tube and glass stopper.

	A.	B.	C.
Capacity, grams,	25	50	100
Price, each,	$2.50	3.00	3.50

No. 9640.

No. 9642.

No. 9644.

No. 9646.

No. 9648.

No. 9650.

No. 9640. **Burettes, Gay-Lussac's,** on wooden base.

	A.	B.	C.	D.
Capacity, cc.,	10	25	50	100
Graduations, cc.,	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{5}$
Price, each,	$1.00	1.25	1.50	2.00

No. 9642. **Burettes, Geissler's.**

	A.	B.	C.
Capacity, cc.,	25	50	100
Graduations, cc.,	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{5}$
Price, each,	$1.20	1.60	2.00

No. 9644. **Burettes, Mohr's,** for pinch cock, graduated with greatest accuracy.

	A.	B.	C.	D.	E.	F.
Capacity, cc.,	5	10	25	50	50	100
Graduations, cc.,	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{5}$	$\frac{1}{5}$
Price, each,	$ .30	.50	.75	1.00	.90	1.50

No. 9646. **Burettes, Mohr's,** with glass stop cock, graduated with greatest accuracy.

	A.	B.	C.	D.
Capacity, cc.,	10	25	50	100
Graduations, cc.,	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{5}$
Price, each,	$1.00	1.25	1.50	2.00

No. 9648. **Burettes, Mohr's,** with curved outlet and glass stop cock, accurately graduated.

	A.	B.	C.	D.
Capacity, cc.	10	25	50	100
Graduations, cc.	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{5}$
Price, each,	$1.00	1.25	1.50	2.00

No. 9650. **Burettes, Shellback's,** for pinch cock, with dark enameled stripe on white background.

	A.	B.	C.
Capacity, cc.,	25	50	100
Graduations, cc.,	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{5}$
Price, each,	$1.00	1.25	1.50

No. 9652. **Burettes, Shellback's,** with glass stop-cock, otherwise same as 9650.

	A.	B.	C.
Capacity, cc.	25	50	100
Graduations, cc.,	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{5}$
Price, each,	$1.50	2.00	2.75

No. 9654. **Burette Pinch-cocks,** with rubber tube and glass point.

	A.	B.	C.
Size.	Small.	Medium.	Large.
Price, each,	$ .15	.20	.25

No. 9660.

No. 9662.

No. 9664.

No. 9670.

No. 9660. **Cylinders, Graduated,** with foot, lip and pour out; accurately graduated.

	A.	B.	C.	D.	E.	F.	G.
Capacity, cc.,	5	10	25	50	75	100	150
Price, each, $	.20	.25	.30	.35	.40	.45	.50

	H.	J.	K.	L.	M.	N.
Capacity, cc.,	200	250	500	1000	2000	3000
Price, each,	$. 60	.75	1.00	1.50	2.50	4.00

No. 9662. **Cylinders, Graduations double,** reading both up and down.

	A.	B.	C.	D.	E.	F.	G.	H.
Capacity, cc.,	10	25	50	100	250	500	1000	2000
Price, each, $	.30	.40	.50	.75	1.00	1.50	2.00	3.00

No. 9664. **Cylinders, Mixing,** graduated accurately; with foot and ground glass stopper.

	A.	B.	C.	D.	E.	F.	G.	H.	J.
Capacity, cc.,	25	50	75	100	150	200	250	500	1000
Price, each, $	.50	.60	.70	.80	.90	1.00	1.25	1.50	2.00

No. 9666. **Cylinders, Mixing,** graduations double, reading both up and down, with foot and ground glass stopper.

	A.	B.	C.	D.	E.	F.
Capacity, cc.,	25	50	100	250	500	1000
Price, each, $	.60	.75	1.00	1.50	2.00	2.50

No. 9670. **Extraction Apparatus,** Soxhlets', complete with flask and condenser.
Each, - - - - - - - - - - $3.00

No. 9672.

No. 9674.

No. 9676.

No. 9672. **Flasks, Graduated,** showing volume for which they are intended.

	A.	B.	C.	D.	E.	F.
Capacity, cc.,	50	100	250	500	1000	2000
Price, each, $	.20	.25	.40	.60	75	1.00

No. 9674. **Flasks, Graduated;** with ground glass stopper.

	A.	B.	C.	D.	E.	F.
Capacity, cc.,	50	100	250	500	1000	2000
Price, each, $	.25	.35	.50	.75	.90	1.20

No. 9676. **Fusel Oil** determination apparatus, Herzfeld's, each, - - $1.50.

No. 9690.

No. 9692.

No. 9694.

No. 9690. **Graduates, Conical,** with base and handle. These graduates are graduated with the greatest accuracy and should not be confused with cheaper forms. The handle increases convenience and safety of handling.

	A.	B.	C.	D.	E.	F.	G.	H.
Capacity, cc.,	10	25	50	100	250	500	1000	2000
Price, each,	$ .20	.30	.40	.50	.75	1.00	1.50	2.50

No. 9692. **Graduate, Large,** with handle, scale etched on glass capacity, 1500 cc., each $ .75.

No. 9694. **Graduates,** with double graduations, both cc. and ounces.

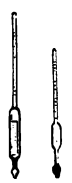
	A.	B.	C.	D.	E.	F.	G.
Capacity, cc.,	15	30	60	125	250	500	1000
Capacity, ozs.	½	1	2	4	8	16	32
Price, each,	$ .20	.25	.30	.40	.50	.75	1.00

No. 9700.

No. 9702.

No. 9708.

No. 9710.



No. 9714.

No. 9730.

No. 9740.

No. 9700. **Hydrometers,** for specific gravity, with thermometer.

(a) graduated 0.700 to 1.000, each,	$ 1.50
(b) graduated 1.000 to 1.400, each,	1.75
(c) graduated 1.400 to 2.000, each,	2.00
(d) graduated 1.000 to 2.000, each,	2.00

No. 9702. **Hydrometers,** for specific gravity, without thermometer.

(a) graduated 0.700 to 1.000, each,	.75
(b) graduated 1.000 to 1.400, each,	1.00
(c) graduated 1.400 to 2.000, each,	1.25
(d) graduated 1.000 to 2.000, each,	1.25

No. 9704. **Hydrometers,** Baume's, for specific gravity. Two hydrometers, one for light and one for heavy liquids, graduated 0.700 to 1.000 and 1.000 to 2.000, with thermometer, per set, - - - - - 3.00

No. 9706. **Hydrometers,** Baume's, for specific gravity. Two hydrometers, one for light and one for heavy liquids, graduated 0.700 to 1.000 and 1.000 to 2.000, without thermometer, per set, - - - - - 1.50

No. 9708. **Hydrometers,** Twaddle's.

(a) graduated 0 to 24—1.000 to 1.120 S. G., each, - - - $ .50
(b) graduated 24 to 48—1.120 to 1.240 S. G., each, - - - .50
(c) graduated 48 to 72—1.240 to 1.360 S. G., each, - - - .50
(d) graduated 72 to 100—1.360 to 1.500 S. G., each, - - - .60
(e) graduated 100 to 134—1.500 to 1.670 S. G., each, - - - .60
(f) graduated 134 to 180—1.670 to 1.900 S. G., each, - - - .60

No. 9710. **Hydrometer** for alcohol, U. S. Custom House standard, with Tralles and proof mark scale, graduated 0 to 100, Tr., with thermometer; in wooden case, each, - - - - - - - 1.25

No. 9712. **Hydrometers** for alcohol, Richter's and Tralles', with percentage thermometer.

(a) graduated 0° to 100°, divided in 1°, each, - - - .75
(b) graduated 30° to 100°, divided in ½°, each, - - - 1.00
(c) graduated 70° to 100°, divided in ½°, each, - - - 1.00

No. 9714. **Hydrometers** for alcohol, Gay Lussac's, best quality.

(a) with thermometer, each, - - - - - - 1.50
(b) without thermometer, each, - - - - - .75

No. 9716. **Hydrometer** for alkali, with Baume scale, each, - - - - .50

No. 9718. **Hydrometer** for beer, Kaiser's, with thermometer, each, - - - 1.25

No. 9720. **Hydrometers** for coal oil.

(a) with thermometer, each, - - - - - - 1.25
(b) without thermometer, each, - - - - - .50

No. 9722. **Hydrometer** for ether, with Baume scale, each, - - - - .60

No. 9724. **Hydrometer** for milk, Quevenne's, graduated 15° to 40°, divided in ½°; with yellow and blue scale and scale indicating per cent. of cream and milk, and amount of dilution in $\frac{1}{10}$, $\frac{2}{10}$, $\frac{3}{10}$, $\frac{4}{10}$ and $\frac{5}{10}$; with mercury bulb and round spindle, each, - - - - - .50

No. 9726. **Hydrometer** for silver solution, each, - - - - - .50

No. 9728. **Hydrometer** for sugar, Brix's, set of three, graduated 0° to 30°, 30° to 60° and 60° to 100°, per set, - - - - - - - 3.00

No. 9730. **Hydrometers** for sugar and syrup, Baume's.

(a) graduated 0° to 20°, divided in 1°, each, - - - - .50
(b) graduated 0° to 50°, divided in 1°, each, - - - - .50

No. 9732. **Hydrometer** for sulphuric acid, graduated 0° to 70°, divided in ½°, each, .50

No. 9734. **Hydrometer** for wine and must, Oechsle's, with two scales and weight, each, - - - - - - - - - 1.00

No. 9740. **Hydrometer Jars** or cylinders.

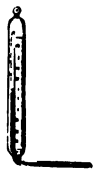
	A.	B.	C.	D.	E.	F.	G.	H.	J.
Height, mm.,	130	155	210	235	260	285	315	365	350
Diameter, mm.,	25	35	40	40	45	50	65	65	50
Price, each,	$ .15	.20	.25	.30	.35	.40	.50	.60	.75

No. 9750.

No. 9754

No. 9756.

No. 9760



No. 9770.

No. 9750. **Nitrometer, Lunge's** for Saltpetre:

(a) without support, each, - - - - - $4.50

(b) with support, each, - - - - - - 6.00

No. 9754. **Pipettes, Mohr's,** graduated with greatest accuracy. To be used as a finger pipette.

	A.	B.	C.	D.	E.	F.	G.	H.	J.
Capacity, cc.,	1	1	2	2	5	10	25	50	100
Divided in cc.,	1/100	1/10	1/50	1/10	1/10	1/10	1/10	1/10	1/5
Price, each,	$ .30	.30	.30	.30	.30	.50	.75	1.00	1.50

No. 9756. **Pipettes, Volume,** accurately graduated with line indicating the capacity of the pipette at 60° F.

	A.	B.	C.	D.	E.	F.	G.	H.	J.	K.	L.
Capacity, cc.,	1	2	3	4	5	10	20	25	50	100	200
Price, each,	$ .10	.10	.12	.12	.14	.16	.20	.25	.30	.50	.75

For plain pipettes see "pipettes" under "Glassware, plain."

No. 9760. **Thermometers, Chemical,** with Fahrenheit and Centigrade scale etched on stem. These thermometers are carefully and accurately graduated and tested.

(a) Length, 200 mm., graduated—10° to + 100° C and to 200° F, each, $1.00

(b) Length, 300 mm., graduated—10° to + 150° C and to 300° F, each, 1.25

(c) Length, 350 mm., graduated—10° to + 200° C and to 400° F, each, 1.50

(d) Length, 400 mm , graduated—10° to + 360° C and to 700° F, each, 2.00

No. 9762. **Thermometers, Chemical,** calibrated, of Jena Normal glass. For laboratory use. The graduations are cut in the tube, with white background, and are absolutely accurate above as well as below zero.

(a) Length, 300 mm., graduated in degrees,—20° to + 100° C, each, 1.25

(b) Length, 400 mm., graduated in degrees,—20° to + 250° C, each, 1.50

(c) Length, 450 mm., graduated in degrees,—20° to + 360° C, each, 2.00

No. 9764. **Thermometers, Chemical,** with glass ring and paper scale, graduated in degrees, both Fahrenheit and Centigrade.

(a) Length, 100 mm., graduated,—20° to + 100° C., and 212° F, each .60

(b) Length, 120 mm., graduated, + 100° to + 220° C., and 450° F, each, .75

No. 9766. **Thermometers, Chemical,** with milk glass scale.

(a) Length, 200 mm., graduated—10° to + 100° C, and 200° F, each, 1.00

(b) Length, 300 mm., graduated—10° to + 150° C, and 300° F, each, 1.25

(c) Length, 350 mm., graduated—10° to + 200° C, and 400° F, each, 1.50

No. 9768. **Thermometers, Chemical,** calibrated, of Jena Normal glass, with milk glass scale, graduated in degrees.

(a) Length, 200 mm., graduated—20° to + 100° C, each, - - 1.00

(b) Length, 300 mm., graduated—20° to + 150° C, each, - - 1.25

(c) Length, 400 mm., graduated—20° to + 200° C, each, - - 1.50

(d) Length, 450 mm., graduated—20 to + 360° C, each, - - 2.00

No. 9770. **Thermometer, Tree,** for ascertaining the temperature of the interior of plants, etc. Scale, 200 mm. long, protected by glass cylinder, bulb bent at right angles, each, - - - - - - 1.00

No. 9772. **Thermometer, or Psychrometer,** with wet and dry bulb, mounted on neat metal support. The thermometers are of Jena Normal glass with white scale graduated in 1-5° from—20° to + 50° C. Height, 300 mm, each, - - - - - - - - - - $5.00

No. 9780.

No. 9782.

No. 9786.

No. 9780. **Tube, Absorption, Bunsen's,** graduated in 250 mm., each, - .75

No. 9782. **Tube, Absorption, Bunsen's,** with retort, graduated in 250 mm., each, 1.25

No. 9784. **Tube, Ether,** graduated, each, - - - - - - .35

No. 9786. **Tubes, Nessler,** with graduation indicating the capacity of the tube.

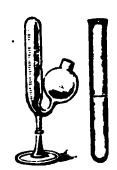
	A.	B.	C.	D.
Capacity, cc.,	50	100	50 & 100	50, 100 & 150
Price, each,	.30	.40	.50	.60

No. 9788. **Tubes, Test,** graduated.

	A.	B.	C.
Capacity, cc.,	10	15	30
Divided in	$\frac{1}{10}$	$\frac{1}{5}$	$\frac{1}{2}$
Price, each,	.40	.50	.60

Urinary Glassware.

No. 9800.



No. 9802.

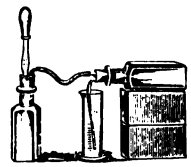
No. 9804.

No. 9800. **Albuminometer, Esbach's,** for direct reading of amount of albumen in urine. Scale graduated on tube; with directions for using, each, - .75

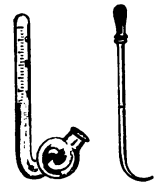
No. 9802. **Saccharometer, Dr. Einhorn's,** fermentation, consisting of one graduated fermentation tube and graduated test tube; in case with directions, each, - - - - - - - - - .75

No. 9804. **Saccharometer, Dr. Einhorn's,** fermentation, improved, with two glass stoppers, graduated tube and measuring flask, each, - - - 1.50

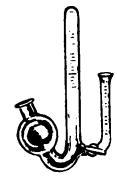
No. 9806.



No. 9808.



No. 9810 B.



No. 9812.

No. 9806. **Tubes, Fermentation.**

(a) Medium size, ungraduated, each, - - - - - $ .25
(b) Large size, ungraduated, each, - - - - - .25
(c) Medium size, graduated, each, - - - - - .50

No. 9808. **Urea Apparatus, Squibb's,** for the estimation of urea in urine by displacement, complete with vials, graduated pipette, graduated cylinder, 50cc., bottle of chlorinated lime and directions for using, each, 2.00

No. 9810. **Ureometer, Doremus',** for determination of amount of urea in urine by hydrobromate method. Consists of a graduated fermentation tube and graduated pipette for introducing the hydrobromate solution; graduations read to $\frac{1}{10}$ per cent.

(a) With foot, each, - - - - - - - 1.25
(b) Without foot, each, - - - - - - - 1.00

No. 9812. **Ureometer, Doremus',** improved by Hinds, urine required for test is delivered with greatest accuracy and no gas escapes from the bulb, each, - - - - - - - - - 3.00

No. 9814.

No. 9816.

No. 9818.

No. 9814. **Ureometer, Huefner's,** for determination of the amount of nitrogen in urea, each, - - - - - - - - 4.50

No. 9816. **Urine, Sedimentation Glasses,** conical, capacity 100 cc.

(a) Graduated in cc., each, - - - - - - .50
(b) Ungraduated, each, - - - - - - .25

No. 9818. **Urinometer, Squibb's,** 120 mm., long, graduated 1.000 to 1.060, with mercury filled bulb, cylinder and directions for using, in case.

(a) As above described, without thermometer, each, - - .75
(b) As above described with thermometer, each, - - - 1.75

For other urinary apparatus, see Centrifuges No. 8540 to 8564.

No. 9824.

No. 9824. **Glass Cutter,** steel wheel, for glass tubing, each, - - - .75
No. 9826. **Glass Cutter,** steel wheel, for glass plates, etc., each, - - - .20

No. 9828. **Glass Cutter,** diamond, for glass plates, etc., each, - - - $5.00

No. 9830. **Glass Marking,** diamond, for writing on glass, etc., each, - - 1.50

No. 9832. **Glass Marking,** wax pencils, for writing on glass, each, - - .15

No. 9834. **Gauze,** Brass, for various uses.

	A.	B.	C.	D.	E.	F.	G.
Mesh,	10	20	30	40	60	80	100
Price, per 30 ctm. sq.,	$ .50	.50	.55	.60	.65	.90	1.30

No. 9836. **Gauze,** Brass, correct thickness and mesh for heating beakers, etc., over flame.

	A.	B.	C.	D.	E.
Size mm.,	75 x 75	100 x 100	125 x 125	150 x 150	200 x 200
Price per 10 pieces,	$ .75	1.00	1.50	2.00	4.00

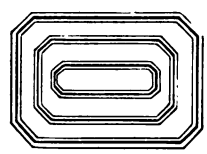
No. 9838. **Gauze,** copper, for combustion.

	A.	B.	C.	D.
Mesh,	35	36	50	64
Price per 30 ctm. sq.,	$ .55	.55	.60	.70

No. 9840. **Gauze,** iron, for supporting dishes, etc.

	A.	B.	C.	D.	E.
Size mm.,	100 x 100	125 x 125	150 x 150	175 x 175	200 x 200
Price per 10 pieces,	$ .50	.75	1.00	1.25	1.50

No. 9842.



No. 9848-9854.

No. 9842. **Hammers.** Solid cast steel, with wedge shaped end, for breaking ores, etc.

	A.	B.	C.	D.	E.	F.	G.
Weight, grams,	60	120	210	300	450	540	780
Price, each,	$ .40	.45	.50	.60	.75	.90	1.25

No. 9844. **Hammers.** Mineralogical, solid cast steel, with edge parallel to handle.

	A.	B.	C.
Weight, grams,	420	600	780
Price, each,	$1.00	1.50	2.00

No. 9846. **Hammers.** Mineralogical, solid cast steel, with edge at right angles to handle.

	A.	B.	C.
Weight, grams,	330	480	600
Price, each,	$ .75	1.00	1.50

No. 9848. **Labels,** gummed, white, with border, 50 x 15 mm., per 100, - - $ .10

No. 9850. **Labels,** gummed, white, with border, 46 x 32 mm., per 100, - - .10

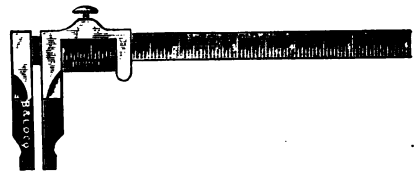
No. 9852. **Labels,** gummed, white, with border, 75 x 38 mm., per 100, - - .12

No. 9854. **Labels,** gummed, white, with border, 85 x 65 mm., per 100, - - .12

No. 9858. **Label Book,** containing all the most useful chemicals and reagents, in perforated strips, which can be readily removed without destroying book. Each, - - - - - - - - - .40

No. 9862 a.

No. 9862 b.



No. 9866.

No. 9860. **Measure,** steel, 15 cm. long, graduated to 0.5 mm. and to 10ths, 20ths, 100ths, 4ths, 8ths, 32nds, 64ths, and 12ths, 24ths, 48ths, 96ths inch, each, $1.25

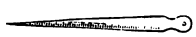
No. 9861. **Measure,** steel, 6 inches long, graduated to 64ths inch, each, - .50

No. 9862. **Measures,** steel calipers.
(a) plain, measuring inside and outside, each, - - - 1.25
(b) graduated, measuring 3¼ inches and 80 mm., each, - - 2.50

No. 9864. **Measure,** steel caliper, graduated to mm., and with vernier reading to 10ths of a mm., each, - - - - - - - - 1.75

No. 9866. **Measures,** steel caliper, nickeled, length 20 cm., divided into inches and mm., with vernier reading to 10ths mm.
(a) plain, with square ends, each, - - - - - 3.00
(b) same, with steel points, each, - - - - 3.50

No. 9868.



No. 9869.

No. 9874.

No. 9868. **Measures,** Metric screw micrometers, steel, nickeled, reading to 100ths mm.
(a) with scale reading to 10 mm., each, - - - - 2.00
(b) with scale reading to 15 mm., each, - - - - 2.50
(c) with scale reading to 20 mm., each, - - - - 2.50

No. 9869. **Measure Cones,** steel, nickeled, for measuring holes.
(a) reading from 1–15 mm., showing 10ths mm., each, - - 1.50
(b) reading from 15–30 mm., showing 10ths mm., each, - - 2.00
(c) reading from 30–45 mm., showing 10ths mm., each, - - 2.50

No. 9870. **Measure, Boxwood,** 24 inches long, with metal edge, graduated in 8ths and 16ths inch, each, - - - - - - - - 3.00

No. 9872. **Measure, Boxwood,** 12 inches long, graduated to 8th inch, each, - .50

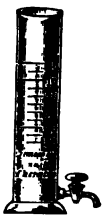
No. 9874. **Measures, Boxwood,** caliper, square joint, two fold, divided in inches, on one side and in millimeters and centimeters on the other.
(a) with scale 6 inches, 150 mm. long, each, - - - - .20
(b) with scale 12 inches, 300 mm. long, each, - - - - .35

No. 9876. **Measuring Tape,** steel, in nickel-plated case, with spring, graduated on one side in 16ths of an inch to 36 inches, and the other side in mm. and centimeters to one meter, each, - - - - - 1.25

No. 9878. **Measuring Tape,** linen, in nickel-plated case, with spring, graduated on one side in 16ths of an inch to 36 inches, and the other side in mm. and centimeters to one meter, each, - - - - .50

No. 9880.

No. 9888 a.



No. 9888 b.

No. 9880. **Milk Tester,** Babcock's, very convenient, accurate and rapid means of determining the amount of fat in milk, etc. It may also be adapted for many other uses for which a centrifugal machine is required.

(a) With 4 bottles, each, - - - - - ***net,*** $7.50
(b) With 8 bottles, each, - - - - - ***net,*** 9.25
(c) With 12 bottles, each, - - - - - ***net,*** 13.25

No. 9882. **Milk Tester** Bottles for milk, each, - - - - ***net,*** .25

No. 9884. **Milk Tester** Bottles for cream, each, - - - - ***net,*** .40

No. 9886. **Milk Tester** automatic pipette, Greiner's, each, - - ***net,*** 1.00

Milk Testing Apparatus.

No. 9888. **Creamometers,** Chevalier's, graduated.

(a) Plain, each, - - - - - - - $1.00
(b) With glass stop-cock, each, - - - - - 2.50

No. 9890. **Lactobutyrometer,** graduated tube with pipette and cylinder, each, .75

No. 9892. **Lactometer,** Quevenne's, each, - - - - - - .50

No. 9894. **Lactoscope, Feser's,** one graduated cylinder, volume pipette, and directions for using, in polished wooden case, each, - - - 5.00

No. 9896. **Pioscope,** Heeren's, a hard rubber plate with graduated glass disc for determining the comparative richness of milk, each, - - .75

. Also see Centrifuges, No. 8540 to 8564.

No. 9900.

No. 9900. **Mills,** small, for grinding drugs, vegetables, etc.

	A.	B.	C.
Height, cm.,	31	37	51
Diameter wheels, cm.,	21	26	26
Price, each, ***net,***	$3.50	4.50	8.00

No. 9904.

No. 9908.

No. 9910.

No. 9904. **Mortars, Iron,** with pestle of iron.

	A.	B.	C.	D.	E.
Diameter, mm.,	100	125	150	175	225
Capacity, cc.,	250	500	1000	2000	4000
Price, each,	$ .30	.40	.50	.75	1.50

No. 9906. **Mortars, Agate,** with pestle, best quality.

	A.	B.	C.	D.	E.	F.	G.	H.	J.	K.	L.	M.	N.
Diameter, mm.,	30	35	40	45	50	55	60	65	70	75	80	90	100
Price, each,	$ .90	1.25	1.30	1.50	1.80	2.25	2.50	3.00	3.50	4.00	4.75	6.00	7.50

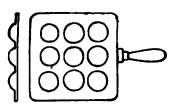
For other mortars see "Glassware," "Porcelain" and "Stoneware."

No. 9908. **Mould, Ingot or Bullion,** making a bar 38 x 38 x 200 mm., with slide to cast any length desired, each, - - - - - $1.50

No. 9910. **Mould, Ingot,** with handle, will cast a bar 175 x 38 x 25 mm., each, 1.00

No. 9912.

No. 9914.



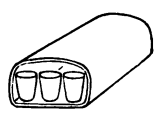
No. 9916.

No. 9912. **Mould, for pouring cast-iron,** with two cavities, drilled smooth, and handle, each, - - - - - - - - - $1.00

No. 9914. **Mould, for scorification of iron,** with three conical cavities, and handle, each, - - - - - - - - - .80

No. 9916. **Mould, for scorification of iron,** with nine cavities and handle, each, .60

No. 9920.



No. 9922.

No. 9924.

No. 9920. **Muffles. Battersea,** regular form.

	A.	B.	C.	D.	E.	F.
Length, cm.,	17.5	19	20	21.5	22.5	25
Width, cm.,	8.75	11	12	12.5	13.5	15
Height, cm.,	6	7	7.5	8	9	10
Price, each, ***net,***	.35	.45	.55	.65	.70	.80

Special prices in quantity.

No. 9922. **Muffles, Battersea,** Colorado form.

	KK.	LL.	MM.	NN.	OO.	PP.
Length, cm.,	35	37.5	37.5	40	40	45
Width, cm.,	20	22.5	27.5	27.5	25	27.5
Height, cm.,	12	14.2	16.5	15	17.5	17.5
Price, each, ***net,***	$1.00	1.30	1.95	2.00	2.00	2.25

Special prices in quantity.

No. 9924. **Muffles, Battersea,** Hoskin's form, with opening at top.

	A.	B.
Length, cm.,	20	25
Width, cm.,	12	15
Height, cm.,	7.5	10
Price, each, ***net,***	.55	.80

No. 9926.

No. 9928.

No. 9926. **Muffle Scraper,** to clean muffles from slag, straight, each, - - $ .50
No. 9928. **Muffle Scraper,** to clean muffles from slag, bent, each, - - .50

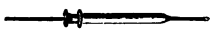
Platinum Ware. The articles listed below are made only of *pure* platinum, hammered, and not spun. Each article fully guaranteed to be satisfactory.

All of our Platinum Ware is sold by actual weight and value of Platinum and not by the piece or approximate weights given in lists below, they are, however, nearly correct.

Owing to the fluctuating values of Platinum we have omitted prices on all articles containing this metal. We are prepared to quote or supply at any time any of the articles below at current market rates.

A. B. C.
No. 9940.

No. 9942.



No. 9944.

No. 9940. **Platinum Blowpipe Tips,** in three styles, A, B and C.
No. 9942. **Platinum Combustion Boats,** all sizes, shapes and weights, ranging from 3 cc. to 10 cc. and from 4 grams to 8 grams weight.

No. 9946.

No. 9948.

No. 9950.

No. 9944. **Platinum Combustion Tubes,** seamless.

	A.	B.
Size, mm.,	300 x 18	300 x 20.
Approximate weight, grams,	130	160

No. 9946. **Platinum Crucibles,** with or without cover, hammered, guaranteed. Weight with cover approximately as many grams as capacity in cubic centimeters. Covers are included unless otherwise ordered.

	A.	B.	C.	D.	E.	F.	G.	H.	J.	K.
Capacity, cc.,	8	10	12	15	20	25	30	35	40	45
Approximate weight, grams,	8	10	11	14	18	24	27	33	37	44

	L.	M.	N.	O.	P.	R.	S.	T.
Capacity, cc.,	50	55	60	70	80	90	100	110
Approximate weight, grams,	51	56	62	65	68	70	80	90

Other sizes to order.

No. 9948. **Platinum Crucibles,** Gooch form, with or without covers, hammered, guaranteed. Furnished with coarse or fine perforations and always with covers unless otherwise ordered. Weights below include covers and caps.

	A.	B.	C.	D.	E.	F.
Capacity, cc.,	10	12	15	20	25	30
Approximate weight, grams,	13	16	18	22	29	34

Other sizes made to order.

No. 9950. **Platinum Dishes,** with or without lips, hammered; guaranteed. Weight approximately ⅓ as many grams as capacity in cubic centimeters.

	A.	B.	C.	D.	E.	F.	G.	H.	J.	K.
Capacity, cc.,	25	40	50	65	75	90	100	125	140	150
Approximate weight, grams,	8	14	17	22	25	32	35	41	48	50

	L.	M.	N.	O.	P.	R.	S.	T.	U.	W.
Capacity, cc.,	175	200	250	300	350	400	450	500	600	700
Approximate weight, grams,	56	70	80	94	117	133	150	175	200	225

Other sizes and shapes lighter or heavier or with wire rims made to order.

No. 9952.

No. 9954.
Folded.

No. 9952. **Platinum, Filter Cones,** seamless, 60°, coarse or fine perforations. Stock sizes as follows :

	A.	B.	C.	D.	E.	F.	G.
Diameter, mm.,	18	20	25	30	38	42	50

Other sizes to order.

No. 9954. **Platinum Filter Cones,** flexible, full or three-quarter circles, coarse or fine perforation ; adjustable to any angle. Stock sizes as follows :

	A.	B.	C.	D.	E.	F.	G.
Diameter when folded, mm.,	18	20	25	30	38	42	50

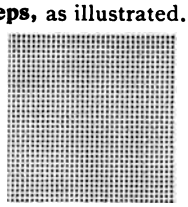
No. 9960. **Platinum Foil,** all sizes and thicknesses.

No. 9962.

No. 9964.

No. 9966.

No. 9962. **Platinum Tipped Forceps,** as illustrated.
No. 9964. **Platinum Tipped Forceps,** as illustrated.
No. 9966. **Platinum Tipped Forceps,** as illustrated.



No. 9968.

No. 9968. **Platinum Gauze.** Stock sizes as follows :

(a) 52 mesh, .004 inch wire, weight per square inch, .543 grams.
(b) 45 mesh, .0085 inch wire, weight per square inch, 1.500 grams.

No. 9970. **Platinum Muffles,** for sugar and milk analysis, enameling, etc. Made in any size, shape or weight, and with or without detachable top. When top is removable the bottom may be renewed when worn out or heavier stock used in the manufacture, thus economizing in metal and materially prolonging their life.

A.

B.

C.

No. 9972.

No. 9974.

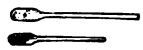
No. 9972. **Platinum Pans,** for iron, steel, water, milk and sugar analysis, incinerations, etc.; hammered ; guaranteed.

	A.	B.	C.
Capacity, cc.,	35	45	45
Approximate weight, grams,	16	15	17

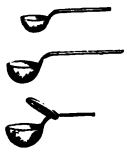
No. 9974. **Platinum Pans,** with or without handles ; furnished with handle unless otherwise ordered.

	A.	B.	C.	D.
Capacity, cc.,	10	20	25	35
Approximate weight, grams,	10	14	18	20

No. 9976.



No. 9978.



No. 9979.

No. 9976. **Platinum Pan** for incinerations, hammered; guaranteed.

	A.	B.
Capacity, cc.,	15	20
Approximate weight, grams,	10	14

Other sizes made to order.

No. 9978. **Platinum Spatulas**, all sizes, shapes, weights, etc., to sketch.

No. 9979. **Platinum Spoons,** deflagration, for blow pipe analysis, with or without covers. Bowls, 12 or 15 mm. diameter and 7 mm. deep.

No. 9980.

No. 9984

No. 9980. **Platinum Tipped Crucible Tongs,** with hollow platinum tips, length about 170 mm.

No. 9982. **Platinum Tipped Crucible Tongs,** with solid platinum tips, length about 170 mm.

No. 9984. **Platinum Triangles,** solid joints, twisted or other style, furnished as desired. Weights with solid joints as follows:

	A.	B.	C.	D.	E.	F.
Size of wire, inch,	.045	.045	.055	.055	.064	.064
Crucible contents, cc.,	12	15	20	30	40	60
Approximate weight, grams,	5	8	11	12	15	18

No. 9988.

No. 9988. **Platinum Triangles,** with nickel plated iron holders and clamp. Holder will accommodate any size of triangle up to 100 cc. Triangles weigh as follows:

	A.	B.	C.	D.	E.	F.	G.	H.
Size of wire, inch,	.047	.047	.050	.050	.062	.062	.064	.064
Crucible contents, cc.,	12	15	20	30	40	60	80	100
Approximate weight, grams,	2	2.5	4.5	5	7.5	8	9	10

Triangles can be made of any size wire, thus making them lighter or heavier as desired.

No. 9990. **Platinum Wire,** any size.

No. 10000. **Pliers,** flat nose, steel (Stubb's).

	A.	B.	C.	D.
Length, mm.,	110	125	150	200
Price, each,	$ .40	.45	.50	1.00

No. 10002. **Pliers,** wire cutting, end cut (Stubb's).

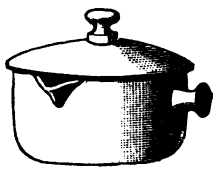
	A.	B.
Length, mm.,	110	150
Price, each,	$ .75	1.00

Porcelain Ware.

No. 10010.

No. 10012.

No. 10014.



No. 10020.

No. 10010. **Porcelain Acid Basins.**

	A.	B.	C.
Diameter, mm.,	115	130	155
Price, each,	$1.00	1.15	1.40

No. 10012. **Porcelain Acid Basins.**

	A.	B.	C.
Diameter, mm.,	115	130	160
Price, each,	$ .40	.50	.60

No. 10014. **Porcelain Casseroles,** with porcelain handles, without cover.

	A.	B.	C.	D.	E.	F.
Capacity, cc.,	100	125	250	625	1000	2000
Price, each,	$ .30	.40	.50	.60	.80	1.00

No. 10016. **Porcelain Casseroles,** with porcelain handle and cover.

	A.	B.	C.	D.	E.	F.
Capacity, cc.,	100	125	250	625	1000	2000
Price, each,	$ .40	.50	.60	.80	1.00	1.50

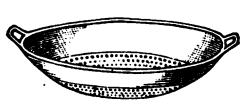
No. 10018. **Porcelain Casseroles,** with wooden handle, without cover.

	A.	B.	C.	D.	E.	F.
Capacity, cc.,	125	250	375	625	1000	2000
Price, each,	$ .30	.40	.50	.60	.80	1.00

No. 10020. **Porcelain Casseroles,** with wooden handle and porcelain cover.

	A.	B.	C.	D.	E.	F.
Capacity, cc.,	125	250	375	625	1000	2000
Price, each,	$ .40	.50	.60	.80	1.00	1.50

For agate casseroles, see "Agateware."



No. 10022.

No. 10024.

No. 10022. **Porcelain Colanders,** with two handles.

	A.	B.	C.	D.
Diameter, mm.,	140	170	200	235
Price, each,	$ .75	1.00	1.25	1.50

No. 10024. **Porcelain Combustion Boats.**

	A.	B.	C.	D.
Length, mm.,	50	75	91	135
Width, mm.,	13	11	21	25
Price, each,	$ .20	.25	.30	.35

No. 10026.

No. 10028.

No. 10030.

No. 10032

No. 10026. **Porcelain Crucibles,** Royal Berlin form, with cover.

	A.	B.	C.	D.	E.	F.	G.
Nos.	00	0	1	2	3	4	5
Diameter, mm.,	34	40	46	57	68	81	87
Capacity, cc.,	13	14	25	45	90	150	265
Price, each,	$ .15	.20	.25	.35	.45	.55	.65

No. 10028. **Porcelain Crucibles,** Meissen form, with cover.

	A.	B.	C.	D.	E.	F.	G.	H.
Nos.	8	7	6	5	4	3	2	1
Capacity, cc.,	8	14	30	45	60	90	120	170
Price, each,	$ .15	.15	.18	.20	.25	.30	.40	.50

No. 10030. **Porcelain Crucibles,** Gooch, with perforated bottom, capacity 20 cc., fitted with cover. Each, - - - - - - - $ .50

No. 10032. **Porcelain Crucibles,** Rose's, with perforated cover and tube.

	A.	B.	C.
Capacity, cc.,	15	30	60
Price, each,	$ .75	1.00	1.50

For other crucibles see "Crucibles."

No. 10034.

No. 10038.

No. 10040.

No. 10034. **Porcelain Evaporating Dishes** of Berlin porcelain, glazed inside and outside up to No. 5.

	A.	B.	C.	D.	E.	F.	G.	H.	J.
Nos.	00	0	1	2	3	4	5	6	7
Diameter, mm.,	70	80	85	90	100	110	120	145	180
Capacity, cc.,	30	45	60	90	120	160	240	320	650
Price, each,	$ .12	.14	.16	.20	.25	.35	.45	.60	.75

No. 10036. **Porcelain Evaporating Dishes** of best German porcelain, glazed inside.

	A.	B.	C.	D.	E.	F.	G.	H.
Nos.	00	0	1	2	3	3a	4	5
Diameter, mm.,	95	115	140	170	195	215	235	260
Capacity, cc.,	100	150	250	400	600	800	1000	1500
Price, each,	$ .15	.20	.25	.30	.40	.50	.60	.75

	J.	K.	L.	M.	N.	O.	P.
Nos.	6	7	8	9	10	11	12
Diameter, mm.,	285	300	315	340	385	405	450
Capacity, cc.,	2000	3000	3500	4500	5500	6000	7500
Price, each,	$1.00	1.25	1.50	2.00	2.50	3.00	3.50

No. 10038. **Porcelain Evaporating Dishes** of Berlin porcelain, glazed inside; fitted with wooden handle.

	A.	B.	C.	D.	E.
Nos.	1	2	3	4	5
Diameter, mm.,	60	70	100	125	170
Capacity, cc.,	30	50	120	250	500
Price, each,	$ .30	.40	.50	.75	1.25

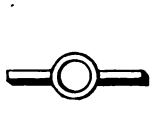
No. 10040. **Porcelain Dishes** for staining, etc., in nests of five dishes and cover.

	A.	B.	C.	D.
Diameter, mm.,	64	72	84	100
Price, per nest,	$ .60	.70	.80	1.00

No. 10042. **Porcelain Dishes,** same style as No. 10040, but deeper, in nests of three with cover.

	A.	B.	C.
Diameter, mm.,	72	84	100
Price, per nest,	$ .75	1.00	1.25

For similar dishes to the above of glass, see "Glassware."



No. 10044.

No. 10046.

No. 10048.

No. 10050.

No. 10044. **Porcelain Filter Rings,** with two arms, each, - - - - $ .20

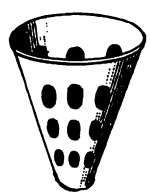
No. 10046. **Porcelain, Filter Rings** with three arms, each, - - - - .30

No. 10048. **Porcelain Funnels,** plain.

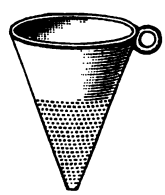
	A.	B.	C.
Diameter, mm.,	90	125	170.
Price, each,	$ .40	.60	.80

No. 10050. **Porcelain Funnels,** ribbed.

	A.	B.	C.
Diameter, mm.,	90	125	170
Price, each,	$ .50	.75	1.00

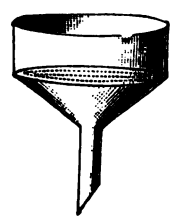


No 10052.



No. 10054.

No. 10056.



No. 10058.

No. 10052. **Porcelain Funnels,** with large oval openings in sides.

	A.	B.	C.
Diameter, mm.	100	120	150
Price, each,	$ .50	.75	1.00

No. 10054. **Porcelain Funnels,** with perforated sides.

	A.	B.	C.
Diameter, mm.,	90	125	160
Price, each,	$ .50	.75	1.00

No. 10056. **Porcelain Funnels,** Dr. Hirsch's, with fixed perforated porcelain plate.

	A.	B.	C.
Diameter, mm.,	90	125	160
Price, each,	$ .75	1.25	2.00

No. 10058. **Porcelain Funnels,** Dr. Buchner's, with perforated porcelain plate and vertical walls.

	A.	B.	C.
Diameter, mm.,	80	125	150
Price, each,	$1.00	1.50	2.00

For agate and glass funnels see "Agateware" and "Glassware."

No 10060.

No. 10062.

No. 10064.

No. 10060. **Porcelain Kettles,** glazed inside.

	A.	B.	C.
Height, mm.,	200	270	330
Diameter, mm.,	270	315	350
Capacity, litres,	7	12.5	20
Price, each,	$ 4.00	6.00	10.00

No. 10062. **Porcelain Mortars,** shallow form with pestle.

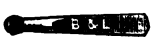
	A.	B.	C.	D.	E.
Diameter, mm.,	80	110	150	200	260
Price, each,	$ .40	.65	1.00	1.50	2.50

No. 10064. **Porcelain Mortars,** deep form, conical, with pestle.

	A.	B.	C.	D.	E.
Diameter, mm.,	80	110	150	200	260
Price, each,	$ .40	.65	1.00	1.50	2.50

For other mortars, see "Mortars," "Glassware" and "Stoneware."

No. 10066.



No. 10068.

No. 10066. **Porcelain Spatulas,** double end.

	A.	B.	C.	D.	E.
Length, mm.,	105	130	160	185	235
Price, each,	$ .25	.30	.35	.40	.50

No. 10068. **Porcelain Spatulas,** single end.

	A.	B.	C.	D.	E.
Length, mm.,	105	130	160	185	235
Price, each,	$ .20	.25	.30	.35	.45

No. 10070. **Porcelain Tubes,** for combustion, glazed inside and outside.

	A.	B.	C.	D.
Length, mm.,	600	600	600	600
Diameter, mm.,	15	20	25	30
Price, each,	$1.25	1.50	1.75	2.00

No. 10072. **Porcelain Troughs,** pneumatic, oblong.

	A.	B.
Length, mm.,	150	180
Price, each,	$1.00	1.50

No. 10080.

No. 10090.

No. 10080. **Presses,** tincture, extra heavy.

	A.	B.	C.	D.
Capacity, litres,	1	2	4	8
Price, each, ***net,***	$2.50	3.50	6.00	8.00

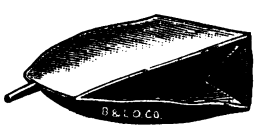
No. 10084. **Polarizing Apparatus,** after Nœrremberg. This apparatus is of the most recent construction, with wide field, wherein the poles of the rings of hyposulphate of soda may be viewed simultaneously. With draw tube for increasing the amplification of the axial images. Each, - - - - - - - - - - ***net,*** $60.00

No. 10086. **Respirator,** Hurd's, automatic, designed for the use of persons exposed to the danger of inhaling poisonous gases and substances, each, - 2 25

No. 10090. **Roasting Dishes,** Battersea.

	A.	B.	C.	D.	E.	F.
Diameter, mm.,	62	75	100	125	150	175
Price per ten, ***net,*** $	.55	.65	.75	.90	1.75	2.25

Rubber Goods.



No. 10100

No. 10102.

No. 10100. **Rubber Gas Bags,** oblong, extra strong without stopcock.

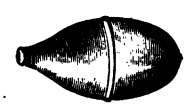
	A.	B.	C.	D.
Capacity, litres,	60	100	140	220
Size, cc.,	45 x 60	50 x 75	60 x 75	75 x 100
Price each, ***net,***	$6.50	8.00	10.00	12.00

No. 10102. **Rubber Gas Bags,** oval, pure gum, without stopcock.

	A.	B.	C.	D.	E.	F.	G.	H.	J.	K.	L.	M.	N.
Capacity, litres,	2	4	6	8	10	12	16	20	24	28	32	36	40
Price each,	$1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.50	4.00	4.50	5.00

No. 10104.

No. 10106.



No. 10112.

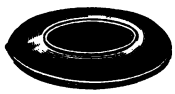
No. 10104. **Rubber Bands,** of pure gum, assorted sizes, packed in suitable box, per box, - - - - - - - - - - - - $1.25

No. 10106. **Rubber Bulbs,** of pure gum, small, for pipettes (about 2 cc.), per ten, .25

No. 10108. **Rubber Bulbs,** of pure gum, medium, for pipettes (about 5cc.), per ten, .30

No. 10110. **Rubber Bulbs,** of pure gum, large, for pipettes (about 10 cc.), per ten, .40

No. 10112. **Rubber Bulbs,** of pure gum, extra large, for pipettes (about 20 cc.), per ten, 1.50



No. 10114.

No. 10122.

No. 10126.

No. 10114. **Rubber Caps,** for closing test tubes, large size, for tubes over 15 mm. diameter, per ten, - - - - - - - - $ .25

No. 10116. **Rubber Caps,** same as above, but for tubes less than 15 mm. diameter, per ten, - - - - - - - - - - .30

No. 10118. **Rubber Fingers,** pure gum, small, for ladies, per ten, - - - .35

No. 10120. **Rubber Fingers,** pure gum, large, for men, per ten, - - - .40

No. 10122. **Rubber Gloves,** with 125 mm. gauntlet, pure gum, sizes 6 to 9, for ladies, per pair, - - - - - - - - - 1.25

No. 10124. **Rubber Gloves,** with 125 mm. gauntlet, pure gum, sizes 10 to 12, for men, per pair, - - - - - - - - - 1.50

No. 10126. **Rubber Stoppers,** pure gum, best quality, will not harden, with one or two holes or solid. Solid sent unless otherwise specified.

	A.	B.	C.	D.	E.	F.	G.	H.	J.	K.	L.	M.	N.	O.
Nos.	00	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Diam. top, mm.,	14	17	19	20	23	25	28	32	36	40	45	49	55	65	70
Diam. bottom, mm.,	9	12	15	16	18	20	22	26	29	32	36	42	50	57	60
Length, mm.,	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Approximate number per 470 grams of stoppers with two holes,	194	128	93	78	63	51	42	31	23	19	15	11	9	7	6

Price, per 470 grams (1 lb.), - - - - - - $3.00

No. 10128. **Rubber Tubing,** pure gum, does not harden.

	A.	B.	C.	D.	E.	F.	G.
Inside diameter, mm.,	1.5	3	5	6	8	9	12
Price, per 30 cm.,	$ .06	.08	.10	.12	.15	.20	.30

No. 10130. **Rubber Tubing,** white, heavy wall, for gas, etc.

	A.	B.	C.	D.	E.	F.	G.
Inside diameter, mm.,	1.5	3	5	6	8	9	12
Price, per 30 cm.,	$ .05	.06	.07	.08	.10	.15	.20

No. 10132. **Rubber Gas Tubing,** cloth covered, stiffened with wire, with threaded nipples for connecting lamps, etc., with gas supply; per 30 centimeters, - - - - - - - - - .10

No. 10134.

No. 10134. **Saccharometer, Zeiss.** This instrument is used for estimating the percentage of sugar in fluids. With tube 200 mm. long, for liquids made to slide in a brass tube, which carries a polarizer and double quartz plate at one end, and at the other an analyzer with divided circle. The circle is divided to semi-degrees, and tenths can be estimated with accuracy Observation is made by adjusting the so-called transition color on both halves of the quartz plate, the tube being directed by hand toward a white surface. Only suitable for fluids containing a small percentage of sugar. Directions accompany each instrument. Each, - - - - - - - ***net,*** $30.00

No. 10136.

No. 10138.

No. 10140.

No. 10136. **Sand Baths,** of iron, hemispherical form.

	A.	B.	C.	D.	E.
Diameter, mm.,	75	100	150	200	250
Price, each,	$ .15	.20	.30	.50	.70

No. 10138. **Sand Baths,** of Russia iron, shallow form.

	A.	B.	C.	D.	E.	F.
Diameter, mm.,	50	75	100	150	200	250
Price, each,	$ .10	.12	.15	.25	.35	.50

No. 10140. **Scorifiers, Battersea.**

	A.	B.	C.	D.	E.	F.
Diameter, mm.,	50	62	75	90	100	125
Price, per 100, ***net,***	$1.16	1.30	2.00	2.40	2.90	3.30

No. 10144.

No. 10146.

No. 10154.

No 10144. **Sieves,** of brass gauze, with wooden frame.

	A.	B.	C.	D.	E.
Diameter, mm.,	100	150	200	250	300
With 10 mesh, price, each,	$ .25	.35	.55	.65	.85
With 20 mesh, price, each,	.30	.40	.60	.75	1.00
With 40 mesh, price, each,	.40	.45	.65	.90	1.15
With 60 mesh, price, each,	.45	.50	.70	1.00	1.25
With 80 mesh, price, each,	.50	.60	.90	1.25	1.70
With 100 mesh, price, each,	.60	.75	1.00	1.55	2.25

No. 10146. **Sieves,** of brass gauze, with brass frame and receiver.

	A.	B.	C.
Diameter, mm.,	125	200	300
With 10 mesh, price, each, ***net,***	$ .70	.95	
With 20 mesh, price, each, ***net,***	.75	1.10	2.50
With 40 mesh, price, each, ***net,***	.80	1.20	2.75
With 60 mesh, price, each, ***net,***	1.00	1.25	3.00
With 80 mesh, price, each, ***net,***	1.10	1.35	3.25
With 100 mesh, price, each, ***net,***	1.20	1.60	3.50

No. 10148. **Sieves,** of brass gauze, with brass frames, in nests of five, one sieve fitting on top of the other. Very useful for separating substances. Meshes, 20, 40, 60, 80 and 100 in each set.

	A.	B.
Diameter, mm.,	125	200
Price, per set, ***net,***	$4.50	$6.50

No. 10150. **Sieve Covers,** of brass, for sieves, No. 10146.

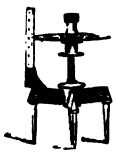
	A.	B.	C.
Diameter, mm.,	125	200	300
Price, each, ***net,***	$ .25	.40	.75

No. 10154. **Spatulas,** flexible steel blades, wooden handles.

	A.	B.	C.	D.
Length of blade, mm.,	100	125	150	175
Price, each,	$ .25	.30	.35	.45

No. 10156. **Spatulas,** of horn, 150 mm. Each, - - - - - $ .12

No. 10160.



No. 10164.

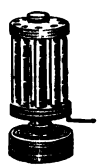
No. 10160. **Spectrometer and Goniometer** combined, each, - - $125.00

This instrument is offered as a most desirable piece of laboratory apparatus. It is mounted on a heavy tripod base with leveling screws. The circle is 15 cm. in diameter, graduated on silver to $\frac{1}{6}\frac{1}{0}°$, and reading to 20 seconds by means of two verniers and microscopes placed 180° apart. Telescope and collimeter are of 22 mm. aperture and equipped with lenses of high quality. The telescope carries a mirror eyepiece. A comparison prism is attached to the collimeter. A heavy flint dispersing prism, with 35 mm. circular faces accompanies the instrument.

(a) Support for centering crystals, to be used with above. Each, 32.00
(b) Grating holder for use with above. Each, - - - 12.00
(c) Complimentary objective to be used with above to facilitate in the adjustment of crystals. Each, - - - - - 9.00

No. 10164. **Spherometer,** with ground glass plate, not shown in cut, as a base, Each, - - - - - - - - - - 36 00

No. 10168.



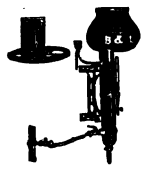
No. 10172 a. Complete.

No. 10172 b. Base.

No. 10168. **Still, Ralston,** new process, for water, made of best quality cold rolled copper throughout, lined in the interior with pure block tin, preventing corrosion and rust. The construction is so arranged that the still cannot boil dry (See illustration). It can be operated on a stove or over a gas or oil flame. A very well made and practical still at a low price. Capacity, 1,000 cc. per hour. Size, 225 mm., diameter, 350 mm. high. Each,- - - - - - - - - ***net,*** 10.00

No. 10172. **Stills, Rochester,** for water and spirits, made of copper throughout. Consists of two parts, the base or boiler, and condenser. Can be used on stove or over gas or oil flame. The still is furnished in two ways, (a) with Rochester base, recommended if the apparatus is to be used for reclaiming alcohol or other purposes than water, and (b) with the Arnold base if to be used for water only. Capacity of still, 1,000 cc. in forty-five minutes.

(a) With Rochester base, size complete, diameter, 275 mm.; height, 650 mm. Each, - - - - - - - - 15.00
(b) With Arnold base, size complete, diameter, 350 mm.; height, 650 mm. Each, - - - - - - - - 15.00



No. 10176.

No. 10178.

No. 10180

No. 10176. **Still, Jewell,** medium size for water, retort and condenser combined in one iron casting. The condensing tube is straight and secured to position by a nut and washer at lower end. This tube is double tin-plated copper.

The still is furnished with pure block tin tube connection for water supply and bracket or shelf as shown in illustration.

Recommended as a simple and durable still. Capacity 2000 cc. per hour; to be operated by gas. Price, each, - - ***net,*** $11.25

No. 10178. **Still, Jewell,** large size for water, to be used with regular Bunsen gas burners, supplied with the still. Very substantially built, all parts are accessible and easily seen. Furnished with block tin tube for connection to water supply and shelf as shown with No. 10176. Capacity 6000 cc. per hour. Each, - - - - ***net,*** 31.50

No. 10180. **Still, for alcohol or spirits;** a tin lined copper retort and zinc cooler with tin worm, receiving funnel for cold water and outlet for the hot water. Of superior make.

	A.	B.	C.	D.	E.
Capacity, litres,	2	4	8	12	20
Price, each,	$ 9.00	11.00	14.00	17.00	20.00

Stoneware.

No. 10182.

No. 10184.

No. 10186.

No. 10182. **Acid Pitchers,** with handle.

	A.	B.	C.	D.	E.
Capacity, litres,	1	2	4	8	16
Price, each,	$ .25	.35	.50	.80	1.25

No. 10184. **Acid Pots,** with two handles and cover.

	A.	B.	C.	D.	E.
Capacity, litres,	8	16	24	30	40
Price, each,	$ .75	1.25	1.75	2.25	3.00

No. 10186. **Mortars,** wedgewood, and pestle, with wooden handle, guaranteed acid proof.

	A.	B.	C.	D.	E.
Diameter, mm.,	75	100	150	200	260
Price, each,	$ .35	.55	1.00	1.75	3.75

For other mortars see, "glassware," "porcelain" and "mortars."

No. 10190. **Stop Cocks, Brass,** double male screw.

Bore, mm.,	3	6
Price, each,	$ .75	1.00

No. 10191. **Stop Cocks, Brass,** one end for tubing and the other with male or female screw.

Bore, mm.,	3	6
Price, each,	$ .75	1.00

No. 10192. **Stop Cocks, Brass,** well finished, air and gas tight, male; double ends for tubing connections.

Bore, mm.,	3	6
Price, each,	$ .75	1.00

No. 10193. **Stop Cocks, Brass,** male and female screw, or double female screw.
Price, each, - - - - - - - - - $ 1.00

No. 10194. **Stop Cocks, Brass,** double female screw, - - - - 1.00

No. 10195. **Stop Cocks,** with connectors, for gas bags.

	A. small.	B. medium.	C. large.
Price, each,	$ 1.00	1.25	1.50

No. 10196.

No. 10198.

No. 10200.

No. 10196. **Stoves, Oil,** "Summer Queen," reservoir made of steel plates, retinned and aluminum coated.

	A.	B.	C.	D.	E.
No. of burners,	1	1	2	2	3
Width of burners, mm.,	38	75	75	100	100
Price, each,	$1.00	1.50	2.00	2.50	3.50

No. 10198. **Stoves, Gas,** High form, with Russia iron cylinder, cast iron top, base and burner, with brass feed pipes.

	A.	B.	C.
Height, mm.,	160	175	180
Diameter, mm.,	140	165	205
Price, each,	$ .75	1.00	1.25

No. 10200. **Stoves, Gas,** same style as 10198, but two burners in series, total length, 500 mm., height, 190 mm. Each, - - - - $3.50

No. 10202. **Stoves, Gas,** same style as 10198, but three burners in series, total length, 760 mm., height 190 mm. Each, - - - 6.00

No. 10204.

No. 10206.

No. 10204. **Stoves, Gas,** low form, fitted with double burners. All handsomely finished in nickel, with polished feed pipe, edges and valves.

	A.	B.	C.
Height, mm.,	110	105	110
Diameter, mm.,	160	185	210
Price, each,	$1.00	1.25	1.50

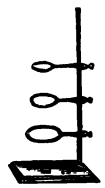
No. 10206. **Stoves, Gas,** same style as 10204, but two burners in series, total length, 525 mm., height, 105 mm. Each, - - - - - 4.50

No. 10208. **Stoves, Gas,** same style as No. 10204, but three burners in series, total length, 810 mm., height, 110 mm. Each, - - - - 7.00

No. 10210.

No. 10212.

No. 10214.

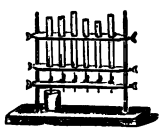


No. 10216.

No. 10210. **Support, Apparatus,** with circular base. Each, - - - $ .50
No. 10212. **Support, Apparatus,** with rectangular flat base. Each, - - .35
No. 10214. **Support, Apparatus,** with tripod base, heavy. Each, - - - .40
No. 10214. **Support, Apparatus,** rectangular base, with two rings. Each, - .45
No. 10216. **Support, Apparatus,** rectangular base, with three rings. Each, - .65
No. 10218. **Support, Apparatus,** rectangular base, with four rings. Each, - 1.00

No. 10220.

No. 10222.

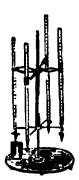


No. 10224.

No. 10220. **Support, Bunsen's Universal Apparatus,** complete with two clamp holders, No. 8580, one clamp holder, No. 8582, one clamp, No. 8588, one clamp, No. 8574 and one clamp, No. 8586, three rings, No. 10248 and fork for burner, all on support No. 10212. Each, - - - 5.00

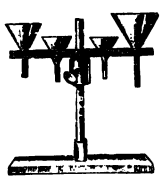
No. 10222. **Support, Burette,** for two burettes, complete with double clamp and support. Each, - - - - - - - - - 1.25

No. 10224. **Support, Burette,** for six burettes. Each, - - - - 6.00



No. 10226.

No. 10228.



No. 10232.

No. 10226. **Support, Burette,** for four burettes, revolving, with round wooden base, each, - - - - - - - - - - - 4.00

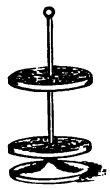
No. 10228. **Support, Burette,** for eight burettes, revolving, with square base, each, 3.00

No. 10230. **Support,** for condensers, each, - - - - - - 1.75

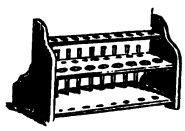
No. 10232. **Support, Filter,** adjustable for height, holds four funnels, each, - .90

No. 10234. **Supports, Funnel,** triangular, of wood, to place upon beakers, etc.

	A.	B.	C.	D.
Diameter,	50	100	150	200
Price, each,	$.15	.20	.25	.30



No. 10236.



No. 10242.

No. 10244.

No. 10248.

No. 10236. **Support, Pipette,** revolving, arranged to receive a number of pipettes. Prevents breakage and drains the pipettes properly, each, - - $2.50

No. 10238. **Support, Test Tube,** of wood, for twelve tubes, each, - - - .25

No. 10240. **Support, Test Tube,** of wood, for twenty-three tubes, each, - - .35

No. 10242. **Support, Test Tube,** same as above, but with pins for drying in addition, each, - - - - - - - - - .50

No. 10244. **Support, Test Tube,** of wire, nickeled, square, for forty-nine tubes, each, - - - - - - - - - - .40

No. 10246. **Support, Test Tube,** of wire, nickeled, circular, for forty tubes, each, .40
These supports are very light, clean and convenient, and may be used for drying as well as supporting tubes.

No. 10248. **Support Rings,** for apparatus applicable to any support.

	A.	B.	C.	D.
Diameter, mm.,	55	75	100	150
Price, each,	$ .15	.18	.20	.25

No. 10250. **Support Rings,** with extension, applicable to any support.

	A.	B.	C.	D.
Diameter, mm.,	55	75	100	150
Price, each,	$ .15	.18	.20	.25

No. 10256.

No. 10258.

No. 10260.

No. 10252. **Tongs, Crucible,** brass, double bent, 20 cm. long. Each, - - $ .50

No. 10254. **Tongs, Crucible,** forged steel, single bent, 20 cm. long. Each, - .50

No. 10256. **Tongs, Crucible,** forged steel, double bent.

	A.	B.	C.
Length, cm.,	20	25	30
Price, each,	$ .60	.75	1.00

No. 10262.

No. 10264.

No. 10266.

No. 10268.

No. 10258. **Tongs, Crucible,** wrought iron, double bent, 75 centimeters long. Each, $1.50

No. 10260. **Tongs, Crucible,** wrought iron, double bent, for lifting crucibles vertically. Each, - - - - - - - - - 2.00

No. 10262. **Tongs, Crucible,** malleable iron.

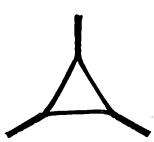
	A.	B.
Length, cm.,	30	42.5
Price, each,	$ .50	.60

No. 10264. **Tongs, Cupel,** steel, with rounded ends. Each, - - - - .75

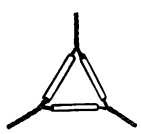
No. 10266. **Tongs, Scorifier,** with steel springs, light, for different sizes of scorifiers.

	A.	B.	C.	D.
Length, cm.,	50	62.5	75	90
Price, each,	$ .75	.90	1.10	1.25

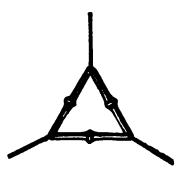
No. 10268. **Tongs, Scorifier,** malleable iron, new pattern, length, 43.5 centimeters. Each, - - - - - - - - - .90



No. 10270.



No. 10272.



No. 10276.

No. 10270. **Triangles,** plain iron.

	A. Small.	B. Medium.	C. Large.
Price per 10,	$ .40	.40	40

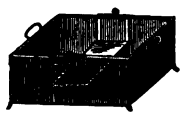
No. 10272. **Triangles,** iron, covered with pipe stem.

	A. Small.	B. Medium.	C. Large.
Price per 10,	$ .60	.60	.60

No. 10276. **Triangles,** iron, covered with pipe stem, with projection at centre of each tube. This form saves gas and time, as the entire sides and bottom of crucible are exposed to flame.

	A.	B.	C.	D.
Length of side, mm.,	60	70	80	100
Price, each,	$ .10	.10	.10	.10

No. 10280.



No. 10290.

No. 10296.

No. 10280. **Tripod, Iron,** for water bath, sand bath, retorts, etc. ring, 70 mm. diameter. Each, - - - - - - - - $ .25

No. 10282. **Tripod, Iron,** 150 mm. diameter; with three rings. Each, - - .50

No. 10284. **Tripod, Iron,** 200 mm. diameter; with five rings. Each, - - - .65

No. 10290. **Troughs,** pneumatic, of zinc, with sliding shelf and overflow, well japanned.

	A.	B.	C.	D.	E.
Size, cm.,	10x17.5x25	12.5x22.5x30	15x27.5x37.5	20x30x45	30x30x10
Price, each,	$ 1.50	2.00	2.25	3.50	4.00

No. 10292. **Trough,** pneumatic, of heavy tin, with sliding shelf and overflow, well japanned. Size for student's use. Each, - - - $ 1.00

No. 10296. **Water Baths,** of polished copper, tin lined, with concentric copper rings, cover, steam escape and extra plate perforated to receive test tubes.

(a) 125 mm. diameter, 4 rings and perforated plate. Each, - 1.00
(b) 150 mm. diameter, 5 rings and perforated plate. Each, - 1.25
(c) 200 mm. diameter, 6 rings and perforated plate. Each, - 1.50

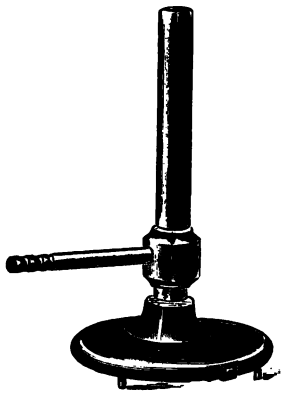
No. 10300. **Wire, Brass,** on 125 grams spools.

	A.	B.	C.	D.	E.	F.	G.	H.	J.	K.	L.
Gauge,	16	18	20	22	24	26	28	30	32	34	36
Price, per spool, $	.15	.15	.15	.20	.20	.25	.30	.30	.35	.40	.50

No. 10302. **Wire, Copper,** on 125 grams spools.

	A.	B.	C.	D.	E.	F.	G	H.	J.	K.	L.
Gauge,	16	18	20	22	24	26	28	30	32	34	36
Price, per spool, $	.20	.20	.20	.25	.25	.30	.35	.35	.40	.50	.60

We can supply Wires No. 10300 and 10302 on 250 and 500 grams spools, if desired.



No. 8407.

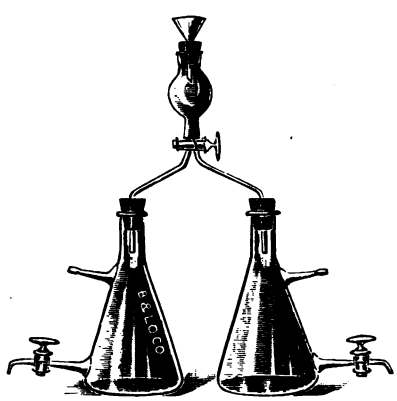
No. 8471.

No. 8407. **Burner, Bunsen's,** new form, height 150 mm., each, - - - - $ .50

No. 8409. **Burner, Bunsen's,** low form, each, - - - - - - - - - .60

These burners are constructed upon an entirely new principle. The air flows in from bottom of tube which is clear its entire length. The gas and air are so thoroughly mixed as to cause complete combustion. Made with arrangement to regulate air at end of tube. (See Vol. 2, No. 2, Journal of Applied Microscopy.)

No. 8471. **Burner or Lamp for Alcohol,** made of metal throughout, with burner, rack for wick adjustment and cap. Capacity, 200 cc., each, - - .25



No. 9169.

No. 9169. **Filter,** double exhaust, recommended for filtration where it is desirable to separate the filtrates. For full description see Vol. 2, No. 2, "Journal of Applied Microscopy." Price complete, with two way stop-cock and side stop-cocks, as shown in illustration, each, - $8.00

No. 9656. **Burette Floats,** 6 x 15 mm., for use with burettes. See page 74. Each, .20

No. 8106. **Balance,** Harvard trip, with two square porcelain plates and side beam. Capacity, 1 kilogram to $\frac{1}{10}$ gram. Recommended for general laboratory use, each, - - - - - - - - - - - 8.00

A.

CHEMICAL APPARATUS SET FOR BEGINNERS.

Catalogue Number.			
8470 d 8406	1 1	Alcohol Burner 150 cc. or Bunsen Burner with rubber tubing	same price, $ .60
8916 c	3	Beaker Glasses, 30 cc.,	.42
8916 e	3	Beaker Glasses, 100 cc.,	.48
8950 f	3	Bottles, narrow mouth, 150 cc.,	.12
8958 f	3	Bottles, wide mouth, 150 cc.,	.12
8616 a	1	Set Cork Borers,	.60
10028 c	2	Crucibles, porcelain,	.36
8646	1	Deflagration Spoon,	.20
10034 a	1	Evaporating Dish, porcelain, 70 mm.,	,12
10034 e	1	Evaporating Dish, porcelain, 100 mm.,	.25
8702 d	1	File, round, 150 mm.,	.25
8700 d	1	File, triangular, 150 mm.,	.25
8750 d	100	Filters, 11 ctm.,	.12
9196 d	1	Flask, round bottom, 500 cc.,	.20
9196 e	1	Flask, round bottom, 1000 cc.,	.30
9212 a	1	Funnel, 50 mm.,	.10
9212 b	1	Funnel, 80 mm.,	.15
9836 a	2	pieces Gauze, Brass, 75 mm.,	.15
9324	250	grams Glass Rod,	.15
10062 a	1	Mortar, porcelain, 80 mm.,	.40
9756 g	1	Pipette, Volume, 20 cc.,	.20
9424 a	1	Retort, of glass, 75 cc.,	.15
9424 c	1	Retort, of glass, 250 cc.,	.25
10138 d	1	Sand Bath, 150 mm.,	.25
9816 b	1	Sedimentation Glass,	.25
9326	6	Stirrers of glass rod,	.45
10214	1	Support for Retort, 2 rings,	.20
10238	1	Support for Twelve Test Tubes,	.25
9460	12	Test Tubes, 150 x 15 mm.,	.24
10280	1	Tripod, of iron, 70 mm.,	.25
9320	250	grams Tubing, of glass,	.20
9552 b	3	Watch-glasses, 50 mm.,	.23
		Total,	$8.26

Discount quoted on application.

B.

CHEMICAL APPARATUS FOR EXPERIMENTING ACCORDING TO DR. STOECKHARDT'S "LESSONS IN CHEMISTRY."

Catalogue Number.			
8470 d 8406	1 1	Alcohol Burner, 150 cc., or Bunsen Burner and Tubing	same price, $ .60
8916	1	Nest Beakers, 00 to 3,	.83
——	1	Balance for hand use with hard rubber pans, beam, 150 mm.,	1.50
*8958	6	Bottles, 100 cc., with corks,	.25
9064	2	Bottles, Woulff forms, 250 cc.,	.80
8338	1	Blow-pipe, 200 mm.,	.12
8516	1	Brush for Test Tubes,	.08
10028	1	Crucible, porcelain, 30 gr.,	.18
8648	1	Deflagration Spoon,	.25
10034	1	each Evaporating Dishes, 70, 85 and 100 mm.,	.53
8704	1	File, flat, for corks, 150 mm.,	.30
8750 d	100	Filters, 11 ctm.,	.12
9192	1	each Flasks, 50, 100, 250 and 500 cc.,	.53

Branches:
NEW YORK AND CHICAGO.

9212	1	each Funnel, 50 and 80 mm.,	$ .25
9836	2	pieces Gauze, of brass wire, 75 x 75 mm.,	.15
10062	1	Mortar, of porcelain, 80 mm.,	.40
9960	1	piece Platinum Foil, 25 x 38 mm., approximately	.60
9990	1	piece Platinum Wire, 150 mm., approximately	.25
9420	1	each Receiver, 100 and 250 cc.,	.35
9424	1	each Retort, 75 and 100 cc.,	.35
10136	1	each Sand-bath, 100 and 150 mm.,	.50
10216	1	Support for Retorts, 3 rings,	.65
10238	1	Support for Test Tubes,	.25
9460	12	Test Tubes 150 x 15 mm.,	.20
10270	2	Triangles,	.08
10280	1	Tripod,	.25
10292	1	Trough, pneumatic,	1.00
9320	250	grams Tubing, of glass, asst'd	.20
		Total,	$11.57

Discount quoted on application.

C.

CHEMICAL APPARATUS FOR QUALITATIVE ANALYSIS AFTER FRESENIUS.

Catalogue Number.			
8470	1	Alcohol Burner or Lamp, 100 cc.,	$ .50
8916	1	Nest Beakers, 00 to 3 (5),	.83
8342	1	Blow-pipe, with platinum tip,	2.25
9050	1	Bottle, for washing, 500 cc.,	.60
10028	1	each Crucible, porcelain, 8, 14, 30, 60 grams,	.73
10034	1	Set Evaporating Dishes, 1 to 6,	2.01
9192	2	each Flasks, 100, 250 and 500 cc.,	.90
8780	1	Forceps, 125 mm.,	.20
9212	1	each Funnel, 50. 80, 100 and 120 mm.,	.70
	1	Glass Plate, blue, 100 mm., square,	.20
	1	Glass Plate, green, 100 mm., square,	.20
9906	1	Mortar, agate 100 mm.,	1.80
9946	1	Platinum Crucible, with cover, 20 cc., approximately	11.50
9960	1	piece Platinum Foil, 25 x 38 mm., approximately	.60
9990	1	piece Platinum Wire, 150 mm., approximately	.25
9326	6	Stirrers, of glass,	.15
10216	1	Support for Retorts, etc.,	.65
10238	1	Support for Test Tubes,	.25
9460	12	Test Tubes, 150 x 15 mm.,	.20
10252	1	Tongs for Crucibles,	.50
10270	2	Triangles, medium size,	.08
10280	1	Tripod,	.25
9320	250	grams Tubing, of glass,	.20
8552	6	Watch-glasses, 50 mm.,	.45
		Total,	$26.00

Discount quoted on application.

D.

CHEMICAL APPARATUS FOR SMALL SIZE LABORATORY.

Catalogue Number.			
8470 8406	1 1	Alcohol Burner, 150 cc. or Bunsen Burner and Tubing. } same price,	$ .60
8918 d	1	Nest Beakers, 0000 to 3,	1.00
8518	1	Brush for Test Tubes,	.08
8972	2	Bottles, 150 cc.,	.25

9064	2	Bottles, Woulff form, 250 cc.,	$ .80
	1	Balance for hand use, beam 150 mm., hard rubber pans, 55 mm. diam.	1.50
8616 a	1	set Borers for Corks,	.60
8338	1	Blow-pipe, 200 mm.,	.12
8958	2	Bottles, 150 cc., with corks,	.30
9050	1	Bottle for washing,	.60
——	1	Bottle for gas, 500 cc.,	.75
8612	30	Corks, assorted sizes,	.20
10026	1	each, Crucibles, porcelain, 14, 25 and 45 cc.,	.80
8630	1	each, Crucibles, Battersea, 55 and 70 mm. diam.,	.10
10034	1	each, Evaporating Dishes, 70, 90, 110 and 145 mm.,	1.27
8704	1	File, flat, 150 mm.,	.25
8702	2	File, round, 150 mm.,	.30
8700	1	File, triangular, 150 mm.,	.25
8750	25	sheets Filter Paper, 48 x 48 ctm.,	.38
9192	2	each, Flasks, 100, 250 and 500 cc.,	.90
9112	1	each, Funnel, 50, 80 and 100 mm.,	.45
9840 a	2	pieces Gauze, wire, 100 mm. square,	.10
9306	3	Glass Plates, 100 mm. square,	.24
9360	1	each, Jars for specimens, 120 and 150 mm.,	.55
10062	1	Mortar, porcelain, 110 mm.,	.65
9960	1	piece Platinum Foil, 38 x 25 mm., approximately,	.60
9990	1	piece Platinum Wire, 150 mm., approximately,	.25
9424	2	Retorts, 500 cc.,	.60
9428	1	Retorts, 250 cc.,	.30
10138	1	each Sand Baths, 200 and 250 mm.,	.85
10156	1	Spatula, horn, 150 mm.,	.12
10238	1	Support for Test Tubes,	.25
10216	1	Support for Retorts,	.65
9326	6	Stirrers, of glass,	.15
10130	180	ctm, Tubing, rubber, 6 mm.,	.48
10130	180	ctm. Tubing, rubber, 8 mm.,	.60
9320	500	grams Tubing, glass, assorted,	.40
10290 b	1	Trough, pneumatic,	2.00
9470	3	Tubes, Arsenic reduction,	.11
10252	1	Tongs for Crucibles,	.50
9472	1	Tube, Chloride of Calcium, 200 mm.,	.12
9474	1	Tube, Chloride of Calcium, 250 mm.,	.12
10270 b	2	Triangles, medium,	.08
10280	1	Tripod,	.25
9460	12	Test Tubes, 150 x 15 mm.,	.24
9552	3	Watch-glasses, 50 mm.,	.23
8244 b	1	set Weights, 100 gram, *net,*	1.00
		Total,	$22.94

Discount quoted on application.

E.

CHEMICAL APPARATUS FOR MEDIUM SIZED LABORATORY.

Catalogue Number.			
10034	1	set Evaporating Dishes, 00–7,	$ 3.02
10036	1	each Evaporating Dishes, 170 and 215 mm.,	.80
8910	1	nest Beakers, 000–5,	.75
8918	1	nest Beakers, 0000–3,	1.00
9472	2	Chloride of Calcium Tubes, 200 mm.,	.24
9474	2	Chloride of Calcium Tubes, 200 mm.,	.24
9740	1	Hydrometer Jar, 210 x 40 mm.,	.25
9740	1	Hydrometer Jar, 260 x 45 mm.,	.35
9740	1	Hydrometer Jar, 315 x 65 mm.,	.50
10270 b	2	Triangles,	.08
9840	2	pieces Wire Gauze, 150 mm.,	.20
10280	1	Tripod,	.25
10282	1	Tripod,	.50
9460	24	Test Tubes, 150 x 15 mm.,	.48

10238	1	Support for Test Tubes,	$ .25
8700	1	File, triangular, 150 mm.,	.25
8702	1	File, round, 150 mm.,	.25
8704	1	File, flat, 150 mm.,	.30
8750	25	Sheets Filter Paper, 48 x 48 ctm.,	.38
10216	1	Support for Retort,	.65
9178	2	each, Filtering Flask, 250 and 500 cc.,	1.60
8972	15	Bottles, 150 cc.,	1.88
8972	10	Bottles, 250 cc.,	1.50
9306	3	Glass Plates, round, 10 ctm.,	.24
9320	1000	Grams Glass Tubing, asst'd	.80
9326	6	Glass Stirrers,	.15
10130	360	ctm., Rubber Tubing, 6 mm.,	.96
10130	360	ctm., Rubber Tubing, 8 mm.,	1.20
10130	360	ctm., Rubber Tubing, 10 mm.,	2.40
10126	500	Rubber Stoppers, asst'd,	3.00
9196	1	each, Flask, round bottom, 100, 250 and 500 cc.,	.45
9192	1	each, Flasks, flat bottom, 100, 250 and 500 cc.,	.45
8612	60	Corks, for above flasks,	.40
9102	1	Liebigs Condenser, 500 mm.,	1.25
9108	1	Support, for above condenser,	1.75
8470	1	Alcohol Lamp, 100 cc.,	.50
	1	Horn Spoon, 150 mm.,	.10
8518	1	Test Tube Brush,	.08
8648	1	Deflagration Spoon,	.25
8338	1	Blow-pipe, 200 mm.,	.12
8382	1	Blow-pipe Lamp,	1.50
144	1	Loupe,	.40
9660	1	each, Cylindrical Graduate, 100 and 500 cc.,	1.45
9644	1	Burette 25 cc., in $\frac{1}{10}$th, with glass point and pinch cock,	.90
9644	1	Burette, same as above but 50 cc., in $\frac{1}{10}$th,	1.20
8616 b	1	Set Cork Borers,	1.10
9756	1	each, Volume Pipettes, 5, 10, 20 and 50 cc.,	.80
9672	1	each, Flask, graduated, 250 and 1000 cc.,	1.15
10222	1	Burette Support,	1.25
8780	1	each, Forceps, 100 and 150 mm.,	.35
10290 b	1	Pneumatic Trough,	2.00
8982	6	each, Bottles, 150 and 250 cc.,	1.65
8592 b	2	Pinch Cocks,	.32
	4	Arsenic Reduction Tubes, U form,	1.40
10062	1	Mortar, porcelain, 110 mm.,	.65
9424	1	each, Retort, 75, 150, 250, 500, 1000 cc.,	1.30
9428	2	Retorts, 150 cc.,	.50
10138	1	each, Sand Baths, 200 and 250 mm.,	.85
10028	1	each, Crucible, porcelain, 14 and 45 cc.,	.35
8630	1	each, Battersea Crucible, sizes c and e.	*net,* .10
10156	1	Spatula. horn, 150 mm.,	.12
10068	1	Spatula. porcelain, 130 mm.,	.25
9762	1	each, Thermometer, 100° and 250° c.	2.75
9112	1	each, Funnels, 50, 80, 100, 120 and 150 mm.,	1.00
9552	3	each, Watch-glasses, 40, 50, 70 and 100 mm.,	1.13
9140	2	Crystallization Dishes, 110 mm.,	.60
8136 b	1	Balance,	*net,* 10.75
9064	1	each, Woulff Bottles, 250 and 500 cc.,	1.00
9990	1	piece, Platinum Wire, 150 mm.,	approximately, .25
9960	1	piece, Platinum Foil, 25 x 38 mm.,	approximately, .60
		TOTAL,	$67.49

Discount quoted on application.

F.

CHEMICAL APPARATUS FOR LARGE SIZED LABORATORY.

Catalogue Number.			
10034	1	nest Evaporating Dishes, 00 to 7,	$3.02
10036	1	each Evaporating Dishes, 215, 260 and 285 mm.,	2.25
8910	1	nest Beakers, 000 to 3,	.45

8910	1	nest Beakers, 000 to 9,	$1.85
8918	1	nest Beakers, 0000 to 3,	1.00
8918	1	nest Beakers, 0000 to 6,	1.70
8512	1	Cleaning Brush,	.30
9472	2	Chloride of Calcium Tubes, 200 mm.,	.24
9481	2	Chloride of Calcium Tubes, 150 mm.,	.50
9740	1	each Hydrometer Jars, 210, 260, 315 and 365 mm ,	1.70
9830	1	Writing Diamond,	1.50
10270 b	4	Triangles,	.16
9840	2	pieces Wire Gauze, 150 mm.,	.20
10280	1	Tripod,	.25
10282	1	Tripod,	.50
9460	50	Test Tubes, 150 x 15 mm.,	1.00
10240	1	Test Tube Support,	.35
8518	2	Test Tube Brushes,	.16
8598	2	Test Tube Clamps,	.30
8702	2	Round Files,	.50
8704	1	Flat File,	.30
8700	1	Triangular File,	.25
10216	3	Retort Supports,	1.95
8750	25	sheets Filter Paper, 48 x 48 ctm.,	.38
8762	25	sheets Filter Paper, 48 x 48 ctm.,	1.12
9178	1	each Filtering Flasks, 250, 500 and 1000 cc.,	1.40
8972	20	Bottles, 150 cc.,	2.50
8972	10	Bottles, 250 cc.,	1.50
	1	each Gas Bottles, 250, 500 and 1000 cc.,	2 60
9270	1	Gas Generator, 1000 cc.,	5.00
8938	1	Bell Jar, 235 x 185 mm.,	1.25
9306	6	Glass Plates, round, 100 mm.,	.48
9302	6	Glass Plates, square, 100 mm.,	.48
9320		1000 grams Glass Tubing, assorted,	.80
9326	6	Stirrers,	.15
10130		360 ctm. each Rubber Tubing, 6, 8 and 12 mm. diam.,	4.56
10126		470 grams Rubber Stoppers, assorted,	3.00
9196	1	each Flasks, round bottom, 50, 100, 250 and 500 cc.,	.53
9192	2	each Flasks, flat bottom, 50, 100, 250, 500 and 1000 cc ,	2.06
8612	100	Corks for above flasks,	.80
8616 b	1	set Cork Borers,	1.10
8470	1	Alcohol Lamp, 100 cc.,	.50
8648	1	Deflagration Spoon,	.25
	1	Horn Spoon, 150 mm.,	.10
8344	1	Blow-pipe,	1.00
8382	1	Blow-pipe Lamp,	1.50
9660	1	each Cylindrical Graduate, 100, 250 and 500 cc.,	2.25
9672	1	each Flasks, graduated, 100, 250, 500 and 1000 cc.,	2.00
9756	1	each Pipette, 5, 10, 25 and 100 cc.,	1.05
9754	1	Mohr's Pipette, 25 cc.,	.75
9646	1	each Burette, 25 and 50 cc.,	2.75
9640	1	Burette, Gay Lussac's, 50 cc. $\frac{1}{5}$,	1.50
8780	1	each Forceps, 100 and 150 mm.,	.40
9392	3	Pipettes, 200 mm.,	.45
10290	1	Pneumatic Trough, 10 x 17.5 x 25 ctm.,	1.50
10290	1	Pneumatic Trough, 20 x 30 x 45 ctm ,	3.50
8982	15	Bottles, 150 cc.,	1.68
8982	10	Bottles, 250 cc.,	1.50
8592 b	3	Pinchcocks,	.48
10062	1	each Porcelain Mortars, 80 and 150 mm.,	1.40
9906	1	Agate Mortar, 50 mm.,	1.80
9424	1	each Retorts, 75, 150, 250, 500 and 1000 cc.,	1.30
9428	1	each Retorts, 75, 150, 250 and 500 cc.,	1.25
10028	1	each Porcelain Crucibles, 8, 14, 30, 45 and 60 cc.,	.93
8630	1	each Battersea Crucibles, a, b, c, d, e,	*net*, .19
9250	2	Safety Tubes,	.50
9050	1	Wash Bottle, 500 cc.,	.60
9904	1	Iron Mortar, 100 mm.,	.30
10256	1	each Crucible Tongs, 200 and 300 mm.,	1.60
8806 c	1	Crucible Furnace,	8.40
9762	1	each Thermometer, 100 and 360° c.,	3.00
9112	1	each Funnel 50, 80, 100, 120, 150 and 170 mm.,	1.40

9240	3	Funnel Tubes, 300 mm.,	$ .36
9552	6	each Watch-glasses, 50 and 70 mm.,	1.05
9552	3	Watch-glasses, 100 mm.,	.45
9140	2	each Crystalization Dishes, 110, 130 and 150 mm.,	2.10
9420	1	each Receivers, 100, 250, 500 and 1000 cc.,	.95
8140 b	1	Balance,	*net,* 27.00
8248 b	1	set Weights,	*net,* 2.00
10296	1	Water-bath, 150 mm.,	1.50
9064	1	each Woulff Bottles, 250, 500 and 1000 cc.,	1.80
9066	1	Woulff Bottle, 1000 cc.,	.90
	4	Arsenic Reduction Tubes, U form,	1.40
10156	1	Horn Spatula, 150 mm.,	.12
10068	1	Porcelain Spatula, 130 mm.,	.25
9102	1	Liebig's Condenser, 500 mm.,	1.25
9108	1	Condenser Support,	1.75
9990	1	piece Platinum Wire, 150 mm.,	approximately, .25
9960	1	piece Platinum Foil, 25 x 38 mm.,	approximately, .60
9988 c	1	Platinum Triangle,	approximately, 4.75
		Total,	$144 45

Discount quoted on application

G.

CHEMICAL APPARATUS FOR AGRICULTURAL EXPERIMENTS.

Catalogue Number.			
10034	1	set Evaporating Dishes, 00 to 7,	$3.02
9702	1	each Aræometer, a and d,	2.00
9644	1	each Burette, 50 cc., in $\frac{1}{10}$ and 50cc., in $\frac{1}{5}$,	1.90
9741	1	Hydrometer Jar, 260 x 45 mm.,	.35
9660	1	Cylindrical Graduate, 100cc.,	.45
10270 b	2	Triangles,	.08
9840	2	pieces Wire Gauze, 100 mm.,	.10
9460	24	Test Tubes, 150 x 15 mm.,	.48
10240	1	Test Tube Support,	.35
9132	1	Dessicator or Essicator, 100 mm.,	.75
8702	1	Round File, 150 mm.,	.25
8704	1	Flat File, 150 mm.,	.30
10216	1	Retort Support,	.65
8750	25	sheets Filter Paper, 48 x 48 ctm.,	.38
8972	20	Bottles, 150 cc.,	2.50
8972	10	Bottles, 500 cc.,	2.00
9320		500 grams Glass Tubing, asstd,	.40
9326	6	Glass Stirrers	.15
10156	1	Horn Spatula, 150 mm.,	.12
10130		360 ctm. each Rubber Tubing, 6, 8 and 12 mm. diam.,	4.56
9196	2	each Flasks, 100, 250 and 500 cc.,	.90
	1	Alkalimeter, Fresenius and Will,	.40
9672	2	each Flasks, graduated, 100 and 500 cc.,	.85
9106	1	Liebig's Condenser, 500 mm.,	1.35
9108	1	Condenser Support,	1.75
8344	1	Blow-pipe,	1.00
8780	1	Forceps, 150 mm.,	.25
9756	1	each Volume Pipettes, 5, 10 and 50 cc.,	.60
8662	1	Sterilizer,	10.00
8958	10	each Bottles, wide mouth, 30, 50 and 75 cc.,	.75
8592 b	2	Pinch-cocks,	.32
10062	1	Porcelain Mortar, 150 mm.,	1.00
9424	1	each Retorts, 75 and 100 cc.,	.35
	1	pair Scissors,	.75
10028	1	each Porcelain Crucibles, 14 and 30 cc.,	.33
9050	1	Wash Bottle, 500 cc.,	.60
	1	Nitrogen Bulb, Varrentrap and Will,	.30
8134	1	Balance,	*net,* 6.00

8146 b	1	Balance,	*net,*	$50.00
8278	1	set of Weights,	*net,*	6.75
9762	1	each Chemical Thermometers, 100° and 250° c.,		2.75
10296	1	Water Bath, 150 mm.,		1.50
8470	1	Alcohol Lamp, 100 cc.,		.50
9552	6	Watch-glasses, 50 mm.,		.45
9112	1	each Funnels, 50, 80, 100 and 120 mm.,		.70
9946	1	Platinum Crucible, 20 cc.,	approximately,	11.50
9988 c	1	Platinum Triangle and Holder,	approximately,	4.75
9990	1	piece Platinum Wire, 150 mm.,	approximately,	.25
9960	1	piece Platinum Foil, 25 x 38 mm.,	approximately,	.60
			Total,	$128.04 .

Discount quoted on application.

H.

CHEMICAL APPARATUS FOR URINE ANALYSIS.

Catalogue Number.				
10034	1	each Evaporating Dishes, 70, 80 and 90 mm.,		$ .46
8918	1	set Beakers, 0000 to 2,		.80
10270 b	2	Triangles,		.08
10280	1	Tripod,		.25
9460	24	Test Tubes, 150 x 15 mm.,		.48
10240	1	Test Tube Support,		.35
8598	1	Test Tube Holder,		.15
10216	1	Retort Support,		.65
8752	25	sheets Filter Paper, 48 x 48 ctm.,		.38
9326	6	Glass Stirrers,		.15
8602	2	Watch-glass Clamps,		.40
9192	2	each Flasks, flat bottom, 100 and 250 cc.,		.50
8344	1	Blow-pipe,		1.00
8992	1	set Reagent Bottles, 30 in all, any names desired,	*net,*	4.35
10028	1	each Porcelain Crucible, 8, 14 and 30 cc.,		.48
9050	1	Wash Bottle, 500 cc.,		.60
10252	1	Crucible Tong,		.50
9212	1	each Glass Funnel, 50, 80 and 100 mm.,		.45
9552	6	Watch-glasses, 50 mm.,		.45
9818 a	1	Squibb's Urinometer,		.75
8470	1	Alcohol Lamp, 100 cc.,		.50
9644	1	Burette Mohr's, 25 cc.,		.75
9644	2	Burettes Mohr's, 50 cc.,		2.00
9660	1	Cylindrical Graduate, 500 cc.,		1.00
9672	1	each Flasks, graduated, 250, 500 and 1000 cc.,		1.75
9754	1	Pipette Mohr's 5 cc., in $\frac{1}{10}$,		.30
9630	1	Specific Gravity Bottle, 50 cc.,		1.00
10236	1	Pipette Support,		2.50
10222	1	Burette Support,		1.25
	1	Urine Cylinder, with cover, 2000 cc.,		1.50
9756	1	each Pipette, 5, 10, 20 and 50 cc.,		.80
9132	1	Dessicator, 100 mm.,		1.00
8660	1	Drying Oven, 200 x 150 x 150 mm.,		4.00
8774	25	sheets Filter Paper, 48 x 48 ctm.,		1.00
10296	1	Water Bath, 150 mm.,		1.25
9654	3	Pinch-cock, with glass point and tubing,		.60
9988 c	1	Platinum Triangle and Holder,	approximately,	4.75
9972 a	1	Platinum Dish, 50 cc.,	approximately,	10.25
9946	1	Platinum Crucible, 20 cc.,	approximately,	11.50
9990	1	piece Platinum Wire, 150 mm.,	approximately,	.25
9960	1	piece Platinum Foil, 25 x 38 mm.,	approximately,	.60
			Total,	$61.78

Discount quoted on application.

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TABLES OF METRIC WEIGHTS AND MEASURES.

LINEAR MEASURE.

			Metre.
Divisions	Millimetre	=	0.001 or 1-1000 of a metre.
	Centimetre	=	0.01 or 1-100 " " "
	Decimetre	=	0.1 or 1-10 " " "
Unit	Metre	=	1.
Multiples	Decametre	=	10.
	Hectometre	=	100.
	Kilometre	=	1,000.

SURFACE MEASURE.

Divisions	Millimetre square	=	0.000,001 of a metre square.
	Centimetre square	=	0.000,1 " " " "
	Decimetre square	=	0.01 " " " "
Unit	Metre square	=	1.

CUBIC MEASURE.

			Cubic Metre.
Divisions	Cubic Millimetre	=	0.000,000,001.
	Cubic Centimetre	=	0.000,001.
	Cubic Decimetre	=	0.001.
Unit	Cubic Metre	=	1.
Multiples	Cubic Decametre	=	1,000.
	Cubic Hectometre	=	1,000,000.
	Cubic Kilometre	=	1,000,000,000.

CAPACITY MEASURE.

			Litres.		Cubic Metre.		
Divisions	Millilitre	=	0.001	=	0.000,001	=	1 cubic centimetre.
	Centilitre	=	0.01	=	0.000,01		
	Decilitre	=	0.1	=	0.000,1		
Unit	Litre	=	1.	=	0.001	=	1 cubic decimetre.
Multiples	Decalitre	=	10.	=	0.01		
	Hectolitre	=	100.	=	0.1		
	Kilolitre	=	1,000.	=	1.	=	1 cubic metre.

WEIGHTS.

			Grams.		
Divisions	Milligram	=	0.001		
	Centigram	=	0.01		
	Decigram	=	0.1		
Unit	Gram	=	1.	=	1 cubic centimetre of water at 4°.
Multiples	Decagram	=	10.		
	Hectogram	=	100.		
	Kilogram	=	1,000.	=	1 cubic decimetre of water at 4°.

Common Abbreviations of Above Terms.

mm. for Millimetres. — cm. for Centimetre.
m. for Metre. — cc. for Cubic Centimetres.
grm. for Gram. — kilo. for Kilogram.

COMPARATIVE LIST OF METRIC AND ENGLISH SYSTEMS.

Metre = 100 centimetres, 1000 millimetres, = 39.3704 inches.
Millimetre = 1000 microns, $\frac{1}{25}$ inch, approximately.
Inch = 25.399772 mm. (25.4 approximately).
Litre = 1000 millilitres or 1000 cc., 1 quart (approximately).
Cubic Centimetre = $\frac{1}{1000}$ of a litre.
Fluid Ounce (8 fluid drachms) = 29.578 cc. (30 cc., approximately).
Gram = 15.432 grains.
Kilogram = 2.204 avoirdupois pounds ($2\frac{1}{5}$ pounds, approximately).
Ounce, avoirdupois, = (437½ grains) = 28.349 grams,
Ounce, troy or apothecaries, = (480 grains) = 31.103 grams, } 30 grams, approximately.

TEMPERATURE.

To change Centigrade to Fahrenheit: $(C \times \frac{9}{5}) + 32 = F.$
For example, to find the equivalent of 10° Centigrade, $C = 10°$ $(10° \times \frac{9}{5}) + 32 = 50°$ F.
To change Fahrenheit to Centigrade: $(F. - 32°) \times \frac{5}{9} = C.$
For example, to reduce 50° F. to Centigrade, F. = 50° and $(50° - 32°) \times \frac{5}{9} = 10°$ C. or — 40° F. to Centigrade, F. = — 40° (— 40° — 32°) = — 72°, whence $-72° \times \frac{5}{9} = -40°$ C.

INDEX.

A.

	Page.
Absorption Tubes,	79
Acid Basins, porcelain,	88
Acid Bottles,	49
Acid Brushes,	26
Acid Pitchers,	96
Acid Pots,	96
Adapters, of glass,	41–42
Agate Mortars,	84
Agateware, all kinds,	6, 7, 8, 9
Agateware Boilers	6, 7
Agateware Buckets,	7
Agateware Casseroles,	7
Agateware Cups,	7
Agateware Evaporating Dishes,	7
Agateware Funnels,	8
Agateware Ladles,	8
Agateware Measures,	8
Agateware Percolators,	8
Agateware Pitchers,	8-9
Agateware Scoops,	9
Agateware Trays,	9
Agateware Water-baths,	9
Airpumps, glass,	42
Albuminometer, Esbach's,	79
Alcohol Hydrometers,	77
Alcohol Lamps,	24, 102
Alcohol Still,	96
Alkali Hydrometer,	77
Alkalimeters, all kinds,	71–72
Allihnn's Condenser,	52
Allihnn's Gas Wash Flask,	60
Alton's Burner,	21
Aluminum Beakers,	18
Aluminum Weights,	17
Amber Bottles,	45–46
Analytical Balances,	13. 14, 15
Analytical Weights,	16, 17
Annealing Cups,	31
Anvils,	9–10
Anvils and Vises,	10
Apparatus Clamps,	27–28
Apparatus for Distilling,	95–96
Apparatus for Filtering,	33, 34, 35
Apparatus, potash,	63–64
Apparatus Sets,	102
Apparatus Supports, all kinds,	98-99
Aprons, asbestos,	10
Aquarium Jars,	61
Arsenic Reduction Tubes,	67
Asbestos Aprons,	10
Asbestos Board,	10
Asbestos Cement,	11
Asbestos Cloth,	10
Asbestos Cord or Twine,	11
Asbestos Goods,	10–11
Asbestos Mittens,	11
Asbestos Paper,	11
Asbestos Plates,	11
Asbestos Soldering Block,	19
Aspirating Bottles,	72
Assayers Plant of Gas Furnaces,	37
Avoirdupois Weights,	15–17

B.

	Page.
Babcock's Milk-tester,	83
Balances, all kinds,	11, 12, 13, 14, 15
Balance Weights, all kinds,	15, 16, 17
Balsam Bottles,	49
Bands of Rubber,	92
Bank's Drying Tubes,	68
Bath's, water, enameled iron,	9
Battersea Annealing Cups,	31
Battersea Crucibles,	30
Battersea Muffles,	84
Battersea Roasting Dishes,	92
Battersea Scorifiers,	94
Battery Jars,	61
Baume's Hydrometers,	76
Baume's Hydrometer for Sugar,	77
Beakers, all kinds,	18, 42, 43
Beakers, aluminum,	18
Beaker Clamp,	28
Beakers, glass,	42
Beakers, with ground label,	43
Beer Hydrometer,	77
Bell Glasses, all kinds,	44
Bell Jars, all kinds,	44
Berzelius' Alkalimeter,	71
Bink's Alkalimeter,	71
Blast Burners,	20, 21
Block Holders,	19
Blood Apparatus,	26–27
Blowers,	18
Blow-pipes,	18, 19, 20
Blow-pipe Apparatus,	18, 19, 20
Blow-pipes for Furnaces,	41
Blow-pipe Tips of Platinum,	85
Blue Bottles,	45–46
Blue Glass Plates,	60
Board Asbestos,	10
Board of Health Test Tubes,	66
Boilers, agateware,	6–7
Boilers, double,	6–7
Book of Labels,	81
Borers, charcoal,	19
Borers, cork,	29
Bottles, all kinds, 45, 46, 47, 48, 49, 50, 51, 72, 73	
Bottles, glass stoppered,	46
Bottles, for Milk-tester,	27-83
Bottles, plain,	45
Bottles, wide mouth,	45, 46–48
Bottles, with glass labels,	47, 48
Bottles, with ground labels,	46
Boxes, of glass,	60

Page.

Boxwood Measures, - - - 82
Boyces' Blast Burner, - - - 21
Boyces' Burners, - - - 21
Brass Gauze, - - - - 81
Brass Sieves, - - - 94
Brass Stop Cocks, - - - 96–97
Brass Weights, - - 15, 16, 17
Brass Wire, - - - - 101
Brazing Blow-pipe, - - 19
Bristle Brushes, - - - - 25
Brix's Hydrometer, - - - 77
Brushes, all kinds, - - - 25–26
Buchner's Porcelain Funnell, - 90
Buckets, - - - 7
Bulbs, rubber, - - - - 92
Bullion Moulds, - - - 84
Bunsen's Absorption Tubes, - - 79
Bunsen's Blast Burner, - - 20
Bunsen's Burners, - - - 21
Bunsen's Clamp, - - - 28
Bunsen's Universal Support, - - 98
Burettes, all kinds, - - - 74
Burette Clamps, - - - - 28
Burette Pinch-cocks, - - - 74
Burette Support, - - - - 98
Burners, all kinds, - 20, 21, 22, 23, 24, 102
Burners, alcohol, - - - 24, 102
Burners, improved form, - - 102
Burner Tips, - - - - 21–24
Burner Tripods, - - - 24
Burner Tube, - - - - 24
Burner, vaporized oil, - - 24

C.

Page.

Calipers, all kinds, - - - 82
Camel Hair Brushes, - - - 25
Caps, for Test Tubes, - - - 93
Capsules, for extraction, - - 32
Carbon Cylinders, - - - 19
Carbon Filter Tubes, - - - 69
Carbon Soldering Block, - - - 19
Carboys, - - - - 52
Carrying Case for Centrifuge, - - 26
Cartridges for extraction, - - 32
Casseroles, agateware, - - - 7
Casseroles, porcelain, - - 88
Cement, asbestos, - - - 11
Centrifuges, - - - - 26, 27
Chamois Skin, - - - - 27
Charcoal Borers, - - - 19
Chemical Balances, - - - 13
Chemical Thermometers, - - 78
Chemical Ovens, - - - - 32
Chevalier's Creamometer, - - 83
Chisels, - - - - - 27
Chloride of Calcium Cylinders, - 52
Chloride of Calcium Tubes, - - 67
Clamps, all kinds, - - 27, 28, 29
Clamp Holders, - - - - 27, 28
Cleaning Brushes, - - - 25
Cloth, of asbestos, - - - 10
Coal Oil Hydrometer, - - - 77
Cobalt Bottles, - - - - 49
Colanders, of porcelain, - - 88
Collecting Vials, - - - - 70
Colorado Muffles, - - - 84
Combination Furnace, - - - 35
Combustion Boats, platinum, - 85
Combustion Boats, porcelain, - - 88
Combustion Furnaces, - - 35
Combustion Tubes, glass, - - 67
Combustion Tubes, platinum, - 85
Compound Blast Burner, - - - 20
Concentric Radial Burner, - - 21
Condensation Tubes, - - - 68
Condensers, glass, - - - 52
Condenser Support, - - - 52
Cones for measuring holes, - - 82
Conical Graduates, - - - 76
Connecting Tubes, - - - 68
Copper Gauze, - - - - 81
Copper Wire, - - - - 101
Cord, asbestos, - - - - 11
Cork Borers, - - - - 29
Cork Borer Sharpener, - - - 30
Cork Files, - - - - 30
Cork Press, - - - - 29
Cork Stoppers, - - - 29
Covers for Sieves, - - - 94
Crucible Furnaces, - - - 36, 37
Crucible Tongs, - - - 99, 100
Creamometers, Chevalier's, - - 83
Crucibles, Battersea, - - - 30
Crucibles, Dixon's, - - - 30, 31
Crucibles, platinum, - - - 85
Crucibles, porcelain, - - - 89
Crusher, - - - - - 31
Crystallization Dishes, - - 53
Cupels, - - - - - 31
Cupel Moulds, - - - 31
Cupel Tongs, - - - - 100
Cups, annealing, - - - 31
Cups, miners', - - - - 7
Cutter for glass, - - - 80, 81
Cylinders, Carbon, for soldering, - 19
Cylinders, Chloride of Calcium, - 52
Cylinders, graduated, - - - 75
Cylindrical Jars, - - - 61, 62

D.

Page.

Deflagration Spoons, - - - 31–32
Demijohns, - - - - 53
Dessicators, all kinds, - - - 53
Dialysers, - - - - 53
Diamonds, for cutting glass, - - 81
Dishes, evaporating agateware, - 7
Dishes, evaporating porcelain, - - 89
Dishes, glass, all kinds, - - 53, 54, 55
Dishes, platinum, - - - 85
Dishes, porcelain, - - - 89–90
Dishes, roasting, - - - 92
Distilling Apparatus, - - - 95–96
Distilling Flasks, - - - 56
Dixon's Crucibles, - - - 30–31
Doremus' Ureometer, - - - 80
Double Boilers, - - - 6–7
Double Filter, - - - - 102
Double Graduated Cylinders, - - 75
Drechsel's Gas Wash-flask, - - 60
Dropping Bottles, - - - 49–50
Drug Mills, - - - - 83
Drying Ovens, - - - 32
Drying Tubes, - - - 68

E.

	Page.
Egg Pipettes,	63
Einhorn's Saccharometer,	79
Embryological Watch-glasses	71
Enameled Ware,	6, 7, 8, 9
Erlenmeyer Flasks,	56
Esbach's Albumenometer,	79
Ether Hydrometer,	77
Ether Tubes,	79
Evaporating Dishes, agateware,	7
Evaporating Dishes, glass,	54
Evaporating Dishes, porcelain,	89
Experimental Furnace,	39
Extraction Apparatus,	75
Extraction Cartridges,	32

F.

	Page.
Fermentation Tubes,	80
Feser's Lactoscope,	83
Files, cork,	30
File, handles,	33
Files, rat-tail,	33
Files, round,	33
Files, triangular,	32
Filter Cones, platinum,	86
Filter Flasks,	55
Filter Papers, all kinds,	33, 34, 35
Filter Papers, B. & L. O. Co.,	33, 34
Filter Racks,	33
Filter Rings, porcelain,	90
Filter, double,	102
Filter Supports,	98
Filter Tubes,	55, 69
Filters, hot water,	33
Fingers, of rubber,	93
Flasks, all kinds,	55, 56, 57, 60, 75
Flasks, filter,	55
Flasks, graduated,	75
Flasks, grouud label,	57
Flasks, for washing gases,	60
Fletcher's Blow-pipe,	19
Fletcher's Furnaces,	36, 38, 39, 40, 41
Flint Bottles,	45–46
Flint Enameled Ware,	6, 7, 8, 9
Fluted Funnels,	57
Foil, platinum,	86
Foot Blowers,	18
Force Pumps, of glass,	64
Forceps, plain,	35
Forceps, platinum tipped,	86
Fractional Distilling Tubes,	69
Fresenius' Alkalimeter,	71
Fresenius' Cylinders,	52
Fresenius' Dessecator,	53
Fresenius' Filter Tubes,	55
Fresenius' Oven,	32
Friedburg's Burners,	22
Funnels, agateware,	8
Funnels, glass,	57–58
Funnels, porcelain,	90
Funnel Support,	98
Funnel Tubes,	58–59
Fusel Oil Apparatus,	75
Furnace Blow-pipes,	41
Furnace Ladels,	39
Furnaces, all kinds,	35, 36, 37, 38, 39, 40, 41

G.

	Page.
Gas Bags of rubber,	92
Gas Burners,	20, 21, 22, 23
Gas Furnace,	37
Gas Generators,	59-60
Gas Stoves,	97
Gas Tubing,	93
Gas Wash Flasks,	60
Gauze,	81-86
Gauze, platinum,	86
Gay Lussac's Alkalimeter,	72
Gay Lussac's Barettes	74
Gay Lussac's Hydrometer,	77
Gay Lussac's Specific Gravity Bottle,	73
Geissler's Air Pump,	42
Geissler's Alkalimeter,	72
Geissler's Burettes,	74
Geissler's Potash Apparatus,	63-64
Geissler's Stop-cocks,	65
Geissler's and Erdman's Alkalimeter,	72
Geissler's and Rose's Alkalimeter,	72
German Watch-glasses,	71
Glass Blowers Blast Burner,	20
Glass Boxes,	60
Glass Brushes,	26
Glass Condensers,	52
Glass Cutters,	80-81
Glass Plates,	60
Glass Rod,	61
Glass Stirrers,	61
Glass Stop-cocks,	65
Glass Stoppered Vials,	70
Glass Tubing,	61
Glass Wool,	61
Glassware, graduated,	71 to 79
Glassware plain,	41–48
Glassware, urinary,	79, 80
Gloves, asbestos,	11
Gloves, rubber,	93
Goniometer and Spectrometer,	95
Gooch Crucibles, porcelain,	89
Graduated Glassware,	71 to 79
Graduates, all kinds,	75, 76
Green Bottles,	45, 46
Griffin Beakers,	43
Guard for Haematokrit,	27

H.

	Page.
Hand Balances,	13
Hand Brushes,	26
Hand Lamps, blow-pipe,	20
Hammers,	81
Hart's Drying Tubes,	68
Heeren's Pioscope,	83
Henninger and LeBell Fractional Distillation Tubes,	69
Herzfeld's Fusel Oil Apparatus,	75
Hirsch's Porcelain Funnel,	90
Hoffman's Clamps,	28
Homeopathic Vials,	70
Hopkin's Condenser,	52
Hopkin's Fractional Distillation Tube,	69
Horn Spatulas,	94
Hoskin's Cupels,	31
Hoskin's Furnaces,	35, 36, 39

Page.

Hoskin's Muffles - - - 84
Hot Air Ovens, - - - 32
Hot Plate, - - - - 22
Hot Water Filters, - - - 33
Howe's Balances, - - - 12
Howe's Weights, - - - - 15
Huefner's Ureometer, - - 80
Hurd's Respirator, - - - 92
Hydrometers, all kinds, - - 76–77
Hydrometer, Jars or Cylinders, - - 77

I.

Page.

Ignition Tubes, - - - - 69
Ingot Moulds, - - - 84
Instantaneous Water Heater, - - 22
Iron Gauze, - - - - 81
Iron Mortars, - - - - - 84
Iron Triangles, - - - 100
Iron Weights, - - - - 15, 16

J.

Page.

Jars, all kinds, - - 61, 62, 63
Jars, Hydrometer, - - - 77
Jena Glass Combustion Tubes, - 67
Jena Glass Flasks, - - - 56, 57
Jena Glassware, - - 43, 56, 57, 67
Jewell Stills. - - - - 96

K.

Page.

Kaiser's Beer Hydrometer, - - 77
Kerosene Furnaces, - - - 37, 28
Kettles, porcelain, - - - 91
Kipp's Alkalimeter, - - - 72
Kipp's Gas Generator, - - 59
Kjedahl's Flasks, - - - 57
Koch's Burners, - - - - 22, 23
Koch's Flasks, - - - - 56, 57
Kohlbusch's Balances, - 13, 14, 15
Kohlbusch's Weights, - - - 16, 17
Kreuler's Distilling Flask, - - 56

L.

Page.

Labels, - - - - - 81
Laboratory Balances, - - 13, 14, 15
Lactobutyrometer, - - - 83
Lactometer Quevenne's, - - 83
Lactoscope, Feser's, - - - 83
Ladenburg's Distilling Flasks, - 56
Ladle, agateware, - - - 8
Ladles, for Furnace, - - 39
Ladle furnace, - - - - 39
Lamps, alcohol, - - - 24, 102
Lamps, blow-pipe, - - - 20
Lancet, - - - - - 27
Lecture furnace, - - - 39
Liebig's Condenser, - - - 52
Liebig's Potash Apparatus, - 64
Linen Measuring Tape, - - 82
Low Temperature Burner, - - 23
Lunge's Nitrometer, - - - 78

M.

Page.

Magnets, - - - - - 20
Marchand's Chloride of Calcium Tubes, 67
Marchand's Drying Tubes, - - 68
Marking Diamond, - - - 81
Measures, - - - - - 82
Measures, agateware, - - - 8
Measures, glass, - - - - 76
Metric Measures, - - - 82
Metric Weights, - - - - 16, 17
Micro Burner, - - - - 21
Micro Chemical Balance, - - 13
Micrometer Measures, - - 82
Milk Apparatus, - - 26, 27, 77, 83
Milk Hydrometers, - - - - 77
Milk Pipettes, - - - - - 27
Milk Tubes, - - - - 27
Mills, - - - - - - 83
Mineralogical Hammers, - - 81
Miners' Cups, - - - - - 7
Mitcherlich's Potash Apparatus, - 64
Mittens, asbestos, - - - 11
Mixing Bottles, - - - - 73
Mixing Cylinders, - - - - 75
Mohr's Burettes, - - - 74
Mohr's Clamp, - - - - - 28
Mohr's Pipette, - - - - 78
Mohr's Potash Apparatus, - - 63
Mortars, agate, - - - 84
Mortars, glass, - - - - 63
Mortars, iron, - - - - 84
Mortars, porcelain, - - - 91
Mortars, wedgewood, - - 96
Moulds, - - - - - - 31, 81
Moulds for Cupels, - - - 31
Muencke's Gas Generator, - - 59
Muffles, all kinds, - - - 84, 86
Muffle Furnaces, - - - 39, 40
Muffle Scrapers, - - - 85
Munktell's Filter Paper, - - 34, 35
Must and Wine Hydrometer, - 77

N.

Page.

Nessler's Tubes, graduated, - - 79
Nessler's Tubes, plain, - - 69
Nets for Blowers, - - - 18
Nitrometer, Lunge's, - - - 78
Noerremberg's Polarizing Apparatus, - 92
Norblad's Generator, - - 59

O.

Page.

Oil Burners, - - - - 24
Oil Stoves, - - - - - 97
Ore Hammers, - - - - 81
Ovens, drying, - - - 32

P.

Page.

Pans, platinum, - - - - 86, 87
Paper, asbestos, - - - - 11
Paper, filtering, - - - 33, 34, 35
Pasteur Dishes, - - - 54

Page.

Patent Triplex Burner, - - - 21
Percentage Tubes, - - - 27
Percolators, - - - - 8, 63
Perfected njector Furnaces, - 38
Petri Dishes or Plates, - - - 54
Pinchcocks for Burettes, - - 74
Pioscope, Heeren's, - - - - 83
Pitchers, agateware, - - 8, 9
Pitchers, stoneware, - - - 96
Pipe-stem Triangles, - - 100
Pipette Bottles, - - - - 49, 50
Pipettes, graduated, - - - 78
Pipettes, ungraduated, - - - 63
Pipette Supports, - - - 99
Plates, asbestos, - - - 11
Plates, glass, - - - - 60
Plates, Petri, - - - - 54
Platform Scales, - - - 12
Platinum, all kinds, - - 85, 86, 87
Plattner's Blow-pipe, - - - 19
Pliers, Flat Nose, - - - 87
Pliers, Wire Cutting, - - 87
Pneumatic Troughs, metal, - - 101
Pneumatic Troughs, porcelain, - 91
Polarizing Apparatus, Noerrembergs, - 92
Porcelain Ware, all kinds, - 88, 89, 90, 91
Potash Apparatus, - - - 63, 64
Pots, Stoneware, - - - 96
Preparation Dishes, - - - 54, 55
Preparation Jars, - - - 62
Preparation Vials, - - - 70
Prescription Balance, - - 13
Preservation Jars, - - - 62
Presses, cork, - - - 29
Presses, tincture, - - - 92
Primus Burner, - - - 24
Psychrometer, - - - - 79
Pumps, glass, - - - 64

Q.

Page.

Quevenne's Lactometer, - - 83
Quevenne's Milk Hydrometer, - 77

R.

Page.

Racks, Filter, - - - - 33
Racks, Test Tube, - - - 99
Radial Burners, - - - - 21, 23
Ralston Still. - - - 95
Reagent Bottles, - - 46, 47, 48, 49, 50
Receivers, glass, - - - 64
Regnaults Specific Gravity Bottles, - 73
Respirator, Hurds, - - - 92
Retorts, glass, - - - - 64
Ribbed Funnels, - - - 57
Ring Burners, - - - - 23
Rings for Supporting Apparatus, - 99
Roasting Dishes, - - - 92
Rochester Still, - - - 95
Rods of Glass, - - - 61
Rohrbeck's Alkalimeter, - - 72
Rose's Crucibles, porcelain, - - 89
Rubber Discs for Blowers, - - 18
Rubber Goods, all kinds, - - 92, 93

S.

Page.

Sable Brushes, - - - - 25
Saccharometer, Einhorn's, - - 79
Saccharometer, Zeiss', - - - 93
Safety Burners, Friedburg's, 22
Safety Burners, Koch's, - - - 22, 23
Safety Tubes, - - - 58, 59
Sand Baths, - - - - 94
Sartorius Balance, - - - 14
Scales, all kinds, - 11, 12, 13, 14, 15
Scheibler's Clamp, - - - 28
Scheibler's Dessicator, - - 53
Schleicher and Schuell Filter Paper, - 34
Schwartz's Chloride of Calcium Tube, 67
Scoops, agateware, - - - 9
Scorification Moulds, - - 84
Scorifiers, Battersea, - - - 94
Scorifier Tongs, - - - 100
Scrapers for Muffles, - - - 85
Screw Capped Jars, - - - 62
Sedimentation Attachment, - - 27
Sedimentation Glasses, - - 80
Sedimentation Tubes, - - - 27
Seed Jars, - - - - 68
Separatory Funnels, - - - 58
Sets of Apparatus, - - 103 to 109
Soldering Blocks, - - - 19
Soxhlet's Extraction Apparatus, - 75
Sieves, all kinds, - - - - 94
Sieve Covers, - - - 94
Silver Solution Hydrometer, - - 77
Sharpener for Cork Borer, - - 30
Shellback's Burette, - - - 74
Short Arm Balance, - - 14, 15
Spatulas, horn, - - - - 94
Spatulas, platinum, - - - 87
Spatulas, porcelain, - - - 91
Spatulas, steel, - - - 94
Specific Gravity Bottles, - - - 73
Specimen Jars, - - - 62, 63
Specimen Tubes, - - - - 66
Spectrometer and Goniometer, - 95
Spherometer, - - - - 95
Spoons, deflagration, - 31, 32, 87
Spoons, platinum, - - - 87
Sputum Tubes, - - - 27
Squibb's Urea Apparatus, - - 80
Squibb's Urinometer, - - 80
Stands for Apparatus, - - - 98, 99
Star Burners, - - - 23
Steel Measures, - - - - 82
Steel Spatulas, - - - 94
Steenbuch's Gas Generator, - - 60
Stender Dishes, - - - 55
Sterilizers, - - - - 32
Stills, all kinds, - - - 95, 96
Stirrers, glass, - - - - 61
Stock Bottles for Reagents, - - 50
Stoneware, all kinds, - - - 96
Stopcocks, brass, all kinds, - - 96, 97
Stopcocks, glass, - - - - 65
Stoppers, cork, - - - 29
Stoppers, rubber, - - - 93
Stoves, all kinds, - - - 97
Suction Pump, glass, - - - 64
Sugar Hydrometer, - - - 77
Sulphuric Acid Hydrometer, - - 77
Supports, all kinds, - - - 98, 99

Page.

Supports, Condenser, - - - 52
Supports, Gas Generator, - - 59
Syphons, glass, - - - 65
Syracuse Watch-glasses, - - 71

T.

Page.

Tapes for Measuring, - - - 82
Test Tube Brushes, - - 25, 26
Test Tube Caps of Rubber, - - 93
Test Tube Clamps, - - - 28, 29
Test Tube Supports, all kinds, - 99
Test Tubes, all kinds, - - 63
Test Tubes "Board of Health," - 66
Test Tubes, graduated, - - 79
Thermometers, all kinds, - - 78, 79
Thief Glasses, - - - 65
Tincture Presses, - - - 92
Tips for Blast Burner - - 21
Tips for Burners, - - - 24
Tongs, - - - 87, 99, 100
Tongs, platinum tipped, - - 87
Torsion Balance, - - - 11
Trays, agateware, - - - 9
Tree Thermometer - - - 78
Triangles, all kinds, - - 87, 100
Triangles, platinum, - - 87
Triplex Burner, - - - - 21
Tripods, - - - - 101
Tripods for Burners, - - - 24
Troemner Balances, - - 13, 14, 15
Troemner Weights, - - - 17
Troughs, Pneumatic, metal, - 101
Troughs, Pneumatic, porcelain - - 91
T Tubes, - - - - 68
Tube Clamps, - - - - 28
Tube Furnaces, - - - 40, 41
Tube Vials, - - - - 70
Tubes, Burner, - - - 24
Tubes, Fermentation, - - - 80
Tubes, Filter, - - - 55
Tubes, Funnel, - - - - 58, 59
Tubes, glass, all kinds, - 66, 67, 68, 69
Tubes, graduated, all kinds, - - 79
Tubes, porcelain, - - - 91
Tubes, safety, - - - - 58, 59
Tubing Clamps, - - - 28
Tubing, glass, - - - - 61
Tubing, rubber, - - - 93
Tumblers, - - - - 69
Twaddle's Hydrometers, - - 77
Twine, asbestos, - - - 11

U.

Page.

U Tubes, - - - - 67, 68
Ure's Alkalimeter, - - - 72
Urea Apparatus, Squibb's, - - 80
Ureometer, Dorenus', - - 80
Ureometer, Huefner's, - - - 80
Urinary Glassware, - - - - 79, 80
Urine Apparatus, - - 26, 27–79, 80
Urine Sedimentation Glasses, - 80
Urinometer, Squibb's, - - - 80

V.

Page.

Vials, all kinds, - - - - 70
Victor Meyer Funnels, - - 58
Vises and Anvils, - - - 10
Vogel's Funnel Tubes, - - 59
Volume Pipettes, - - - 78

W.

Page.

Wash Bottles, - - - - 51
Wash Flasks, - - - 51
Watch-glasses, - - - - 71
Watch-glass Clamps, - - 29
Water Baths, copper, - - - 101
Water Baths, enameled iron, - 9
Water Heater, - - - - 22
Wax Pencils, - - - 81
Wedgewood Mortars, - - - 96
Weighing Bottles, - - - 51
Weights, all kinds, - - 15, 16, 17
Weisnegg's Blast Burner, - - 20
Wine and Must Hydrometer, - - 77
Wire, all kinds, - - - 87, 101
Witzel's Gas Generator, - - - 60
Wool of Glass, - - - 61
Woulff Bottles, - - - - 51

Y.

Page.

Y Tubes, - - - - - 68

Z.

Page.

Zeiss' Saccharometer, - - - 93
Zinc Weights, - - - 15
Zinc Pneumatic Troughs, - - 101

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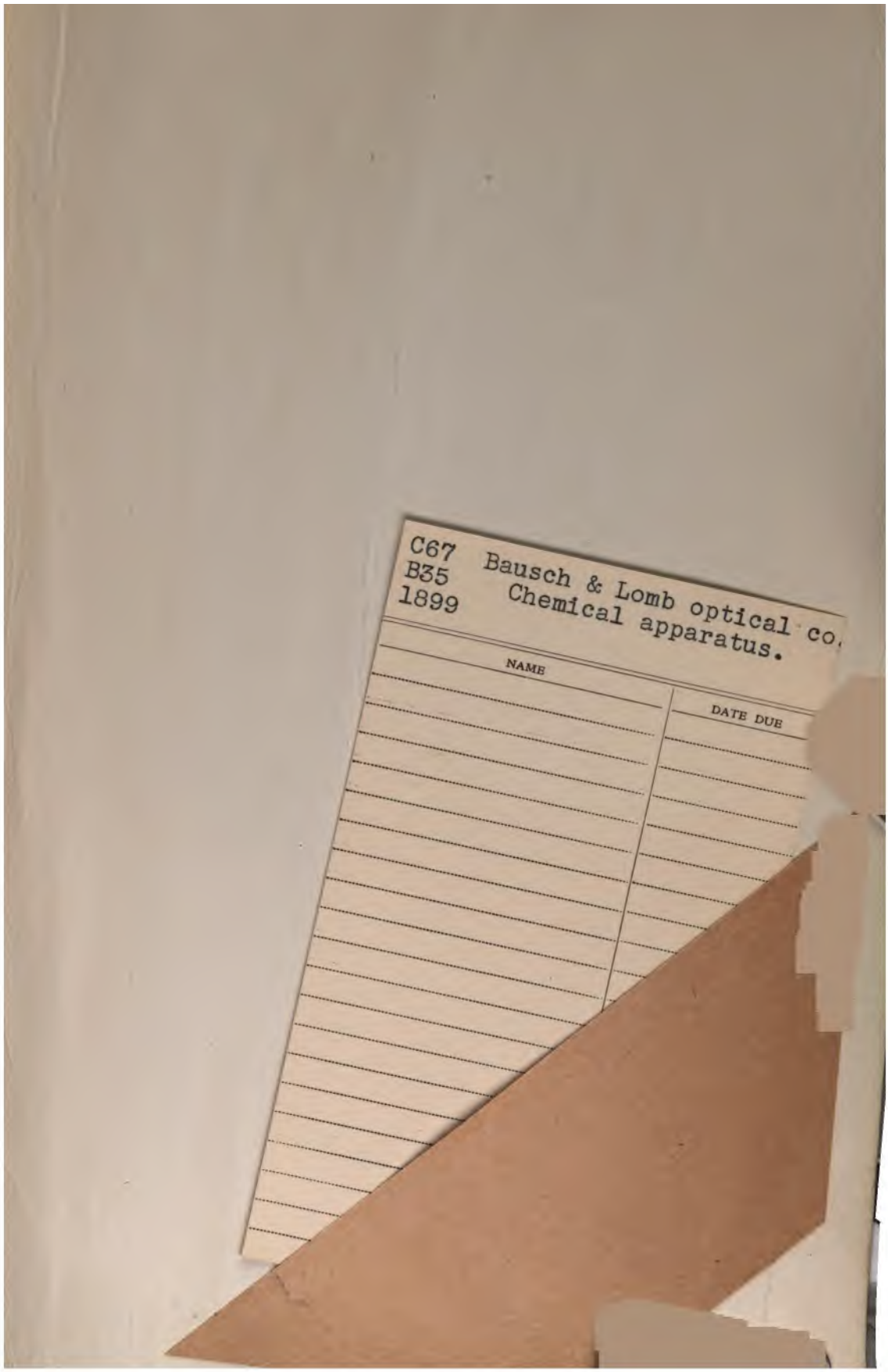
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